Intermec 条码打印机免费服务热线：400-1166-021

Intermec

User’s Guide

EasyCoder 501 XP Bar Code Label Printer

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commitmentonthepartofIntermecPrinterAB.

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FCC Notice (United States of America)

WARNING

Thisequipmentgenerates,uses,andcanradiateradiofrequencyenergyandifnotinstalledand
usedinaccordancewiththeinstructionsmanual,maycauseinterferencetoradiocommunications.
IthasbeentestedandfoundtocomplywiththelimitsforaClassAcomputingdevicepursuant
toSubpartJofPart15ofFCCRules,whicharedesignedtoprovidereasonableprotectionagainst
suchinterferencewhenoperatedinacommercialenvironment.Operationofthisequipmentin
aresidentialareaislikelytocauseinterferenceinwhichcasetheuserathisownexpensewillbe
requiredtotakewhatevermeasuresmayberequiredtocorrecttheinterference.

DOC Notice (Canada)

Canadian Dept. of Communication
REGULATIONS COMPLIANCE (DOC-A)

ThisdigitalapparatusdoesnotexceedtheclassAlimitsforradionoiseemissionsfromadigital
apparatusassetoutintheradiointerferenceregulationsoftheCanadianDepartmentofCommu-
nication.

Ministère des Communications du Canada
CONFORMITE DE REGLEMENTS (DOC-A)

Leprésentappareilnumériquen ,
émetpasdebruitsradio-électriquesdépassantleslimitesapplicables
auxappareilsnumériquesdeclasseAprescritesdanslerèglementsurbrouillageradioélectriqueédicté
parleMinistèredesCommunicationsduCanada.

Declaration of Conformity (CE)

We,

Intermec Printer AB
Idrottsvägen 10
Box 123
S-431 22 Mölndal
Sweden

declareunderoursoleresponsibility,thattheproduct

EasyCoder 501 XP

towhichthisdeclarationrelatesisinconformitywiththefollowingstandards

Electrical Safety: EN 60950

EMC Emissions: EN 50081-1:92
(EN 55022:94, EN 61000-3-2:95)

EMC Immunity: EN 50082-2:95
(EN 61000-4-2:95; EN 61000-4-3:96; ENV 50204:95;
EN 61000-4-4:95; EN 61000-4-6:96)

followingtheprovisionsofDirectives

89/336/EECand **73/23/EEC**

Mölndal1998-09-01

.....
.....

MatsGunnarsson
President

1

printerishandled,modified,orinstalledinothermannersthanthosedescribedin Intermec'smanuals.

Chapter 1

Introduction

EasyCoder 501 XP

glanguage, whichallows
theusertocreatecustom-madeapplicationprogramsandlabel
layoutsinaBASIC-likeenvironment. Itisalsodesignedto
workwiththeIntermecDirectProtocolprogramminglanguage
andwiththeIntermecInterDriver. TheInterDriverallowsyou
todesignlabelsusingstandardPCapplications, forexample
MicrosoftOffice.

TheEasyCoder501XPsupports15scaleableUnicodeTrueType
andTrueDocfontsasstandard. Additionalfontscanbedown-
loadedintotheprinter's Flashmemory, orbepluggedinusing
amemorycard. TheUnicodestandardallowstheuseofspecial
charactersforvariouslanguagesincludingnon-Latinfonts, such
asCyrillic, Chinese, Japanese, Korean, Hebrew, andsimilar.

Safety

Intermecassumesnoresponsibilityregardingthe CE Directiveifthe printerishandled, modified, orinstalledinanywayotherthanthatdescribedinIntermec's manuals.

Caution

- Readthismanualcarefullybeforeconnectingtheprinter.
- Movingpartsareexposedwhenthesidedoorisopen, so ensurethatthecoversareclosedbeforeyouoperatetheprinter.
- Donotopenthefront/left-handcover. Dangerousvoltage!
- Donotremovetheleft-handcover. Dangerousvoltage!
- Donotputyourfingersinsidetheprintmechanismwhen thepowerison.
- Placetheprinteronanevensurfacewhichcansupportits weightofapproximately13kg(29pounds)plus

Product Labeling

suppliesand possibleoptions.

- Donotspraytheprinterwithwater.Ifyouareusingahose tocleanthepremisesinanindustrialenvironment,removethe printerorprotectitcarefullyfromsprayandmoisture.
- Carefullyreadthewarningtextontheenvelopebeforeusing acleaningcard.

containsinformation ontype,model,andserialnumberaswellas ACvoltage.Italsocontainsvariousignsofapproval.

Themachinelabelisattachedtotheprinter’srearplateand

Chapter 2

Installation

Unpacking

Hz.

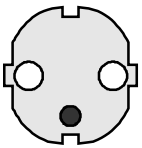
European-type
230VACplug

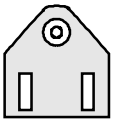
Iftheprinterhasbeendamagedinanywayduringtransporta
–
tion,complaintothecarrierimmediately.

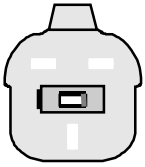
1

vary,orlabels/ribbonmaybe
omittedcompletely,depend-
ingonareaofdistribution.

8



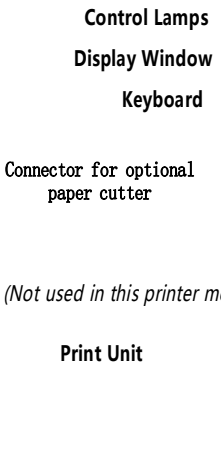




/.Typeandquantitymay

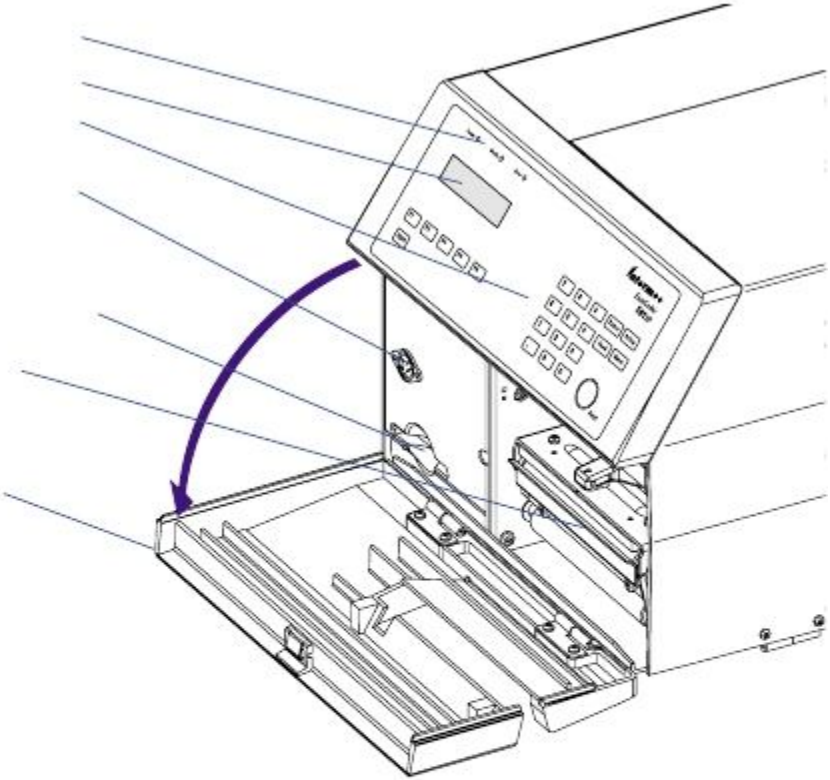
Front View

The front door is held by a snap-lock. Open the front door to view the various parts on the printer's front.



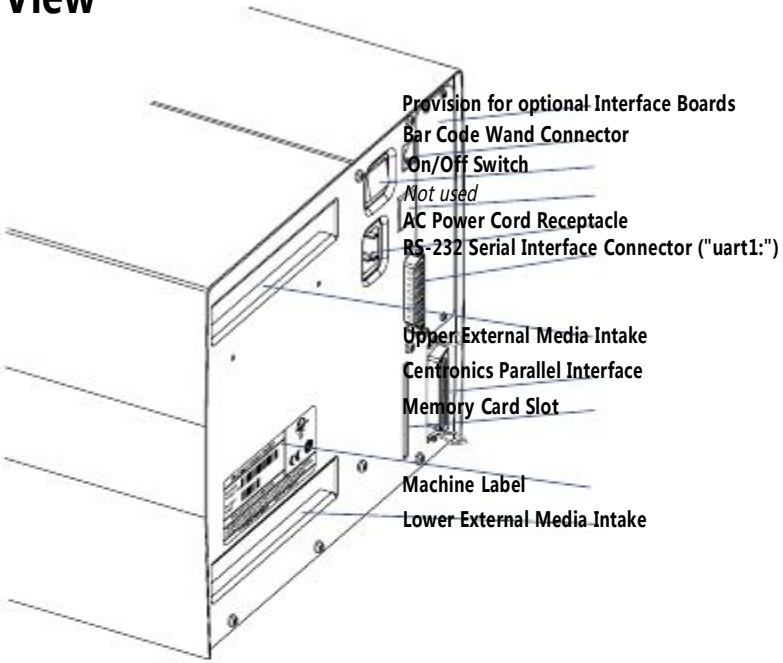
Refer to Chapter 9 "Options" for information on possible optional devices fitted on the printer's front.

9



Rear View

Therearplatecontainstheon/Offswitch,theACpowercord receptacle,andvariousinterfaceconnectorsandslots.



Media Compartment

Themediacompartmentbecomesaccessiblewhentheright-hand
doorisopened.Thedoorisheldbyamagneticlockandcanbe
opened180
°,orberemovedcompletelybypushingitrearwards.

Ribbon Rewind Hub

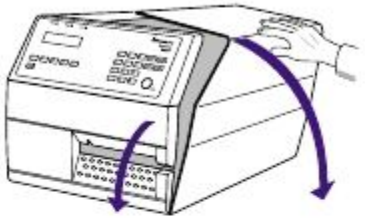
Ribbon Supply Hub

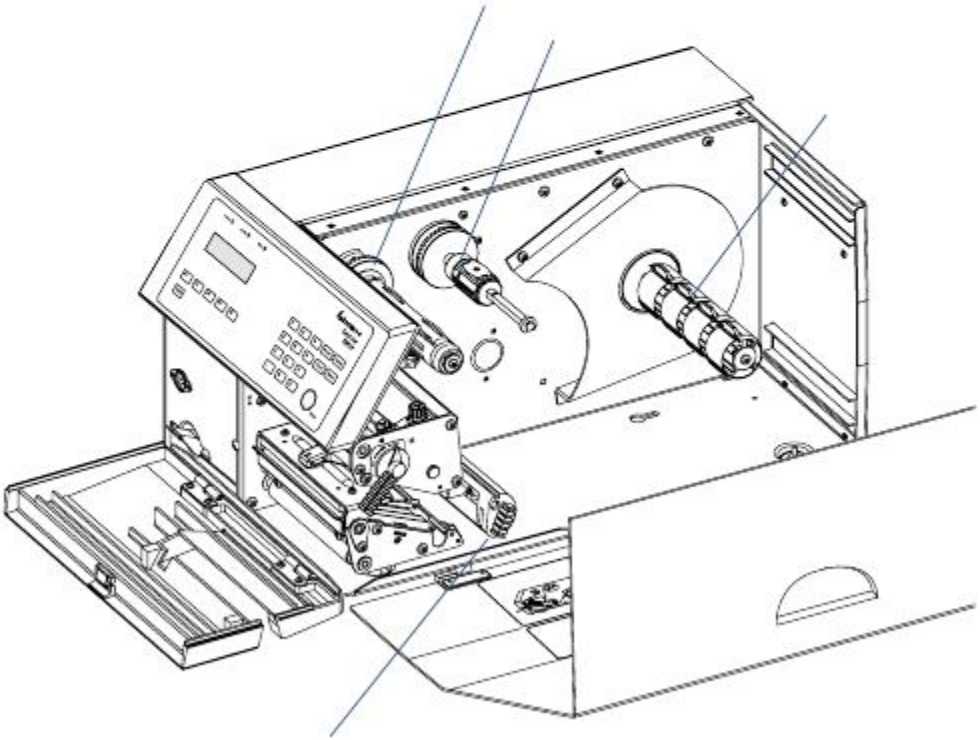
Media Supply Hub

Slack Absorber

RefertoChapter 9 “Options” forinformation onpossibleoptional

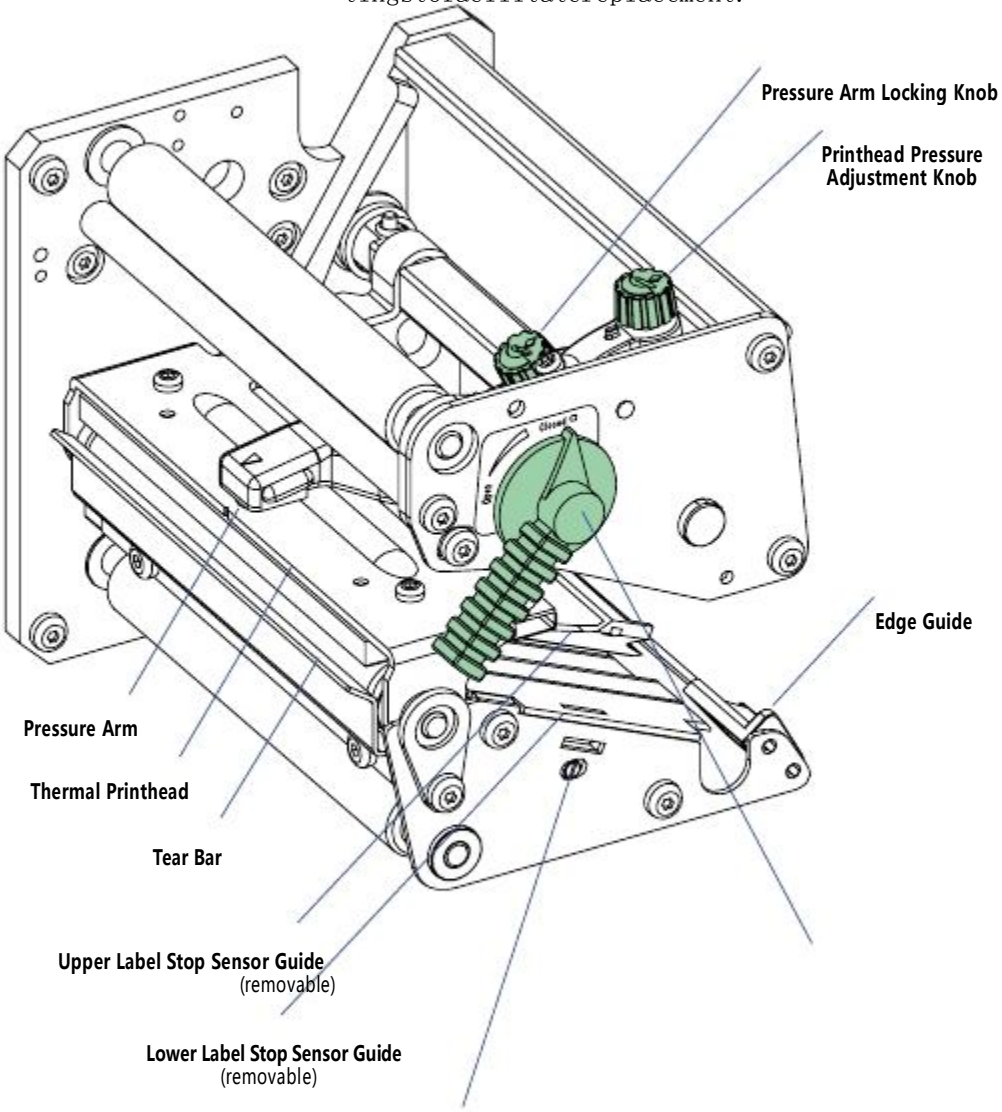
devicesfittedinsidetheprinter’smediacompartment.





Print Unit

Theprintunitfeaturesahigh-performance12dots-per-mm (≈300dots-per-inch)thermalprintheadwithquick-mountfit-tingstofacilitatereplacement.



Connections

Power

1Placetheprinteronalevelsurfaceneararan ACoutlet.Youshouldbeabletoeasilyaccessthepri ntertoloadmedia,to loadribbon,andtoremovetheprintout.

2Checkthattheprinterisswitchedoff.

3Connectthepowercordtothereceptacleontherearplateand toanelectricaloutlet(>90to<264VAC.)

Computer

TheEasycoder501XPisfittedwithone36-pinfemaleCentron-icsconnectorfortheparallelinterfaceportanda25-pinD-style subminiature(DB-25)m

aleconnectorfortheRS-232serial interfaceport(seeAppendix3, “Interfaces”).

- *CentronicsParallelInterface*
  Usetheparallelinterfacewiththe IntermecInterDriver(for Windows)becauseitisfasterthantheserialinterface.There is nocommunicationsetupfortheparallelinterface.
- *RS-232SerialInterface*
  UsetheserialinterfacewithIntermecDirectProtocolor IntermecFingerprintprogramminglanguagebecauseyoucan receiveerrormessagesfromyourprinter(asopposedtothe parallelinterface.)Beforeyoucanusetheserialinterface, you mayneedtosetupthecommunicationparameters,suchas baudrate,parityetc.asdescribedinChapter6, “SettingUp thePrinter.”
- *OptionalInterfaceBoard*
  Severaltypesareavailable(seeChapter9, “Options.”) Refer toAppendix3andtheseparatedocumentationdeliveredwith theboardsforconnectionandsetupinstructions.

Theprintercanbesettoscanallcommunicationportsfor incomingdataandautomaticallyswitchtothatport.Thisfacility

("auto:")canbeselectedinIntermecShell(seeChapter7)orusingtheIntermecFingerprintinstructionSETSTDIO,see *IntermecFingerprintv7.61,Programmer’sReferenceManual*.

Switchoffbothandprinterbeforeconnectingthemtogether.

Controls and Indicators

TheEasyCoder501XPhasseveralwaysofcommunicating directlywithitsoperator:threecontrollamps,adisplay window,
amembrane-switchkeyboardwith23programmablekeys,and abeeper.

Control Lamps

14

Display

Keyboard

layedaccordingtotherequirementsofthe application.

Thecontrollampsarecoloredlights(LightEmittingDiodes)andareusedforthefollowingpurposes:

- *Power*(green)indicatesthatthepowerison.
- *Ready*(green)indicatesthattheprinterisreadyforuse.
- *Error*(red)indicatesthatsomekindoferrorhasoccurred.

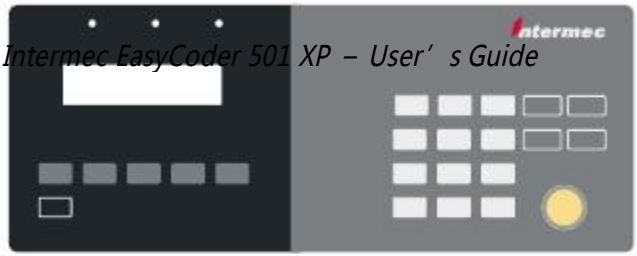
  Ifserialcommunicationisused,anerrormessagemaybe returnedtothehostcomputer.

Thedisplaywindowcontainsan LCD(LiquidCrystalDisplay) withbackgroundillumination andtwolinesoftext,eachwith16 characters.Itguidestheoperatorthroughthesetupandindicates possibleerrorsduringprinting.

TheIntermecFingerprintprogrammingl anguageandthe IntermecDirectProtocolallowcustom-mademessagestobe composedanddisplayedaccordingtotherequirementsofthe application.

Thekeyboardisofmembrane-switchtypeandhasaself-adhesive overlaythateasilycanbereplacedforspecialapplications.It has23keyswithhardcodedfunctionsinthestartupandsetup modes.

InapplicationprogramscreatedusingtheIntermecFingerprint programminglanguage,thekeyscanbeassignedtovarious functions.Sinceonekeyworksasshiftkey,upto44different keycombinationsarepossible.Anaudiblesignal,whichcanbe turnedoff,acknowledgesthatakeyhasbeenpressed.



Controls and Indicators, cont.

Beeper

The beeper notifies the operator when an error has occurred and acknowledges that a key has been pressed. The Intermec Fingerprint programming language allows the key acknowledge signal to be switched off. The frequency and duration of the signal can be specified. Thus, it is possible create different signals for different conditions or events to make the printer play simple melodies!

Chapter 3

Starting Up

Startup Files

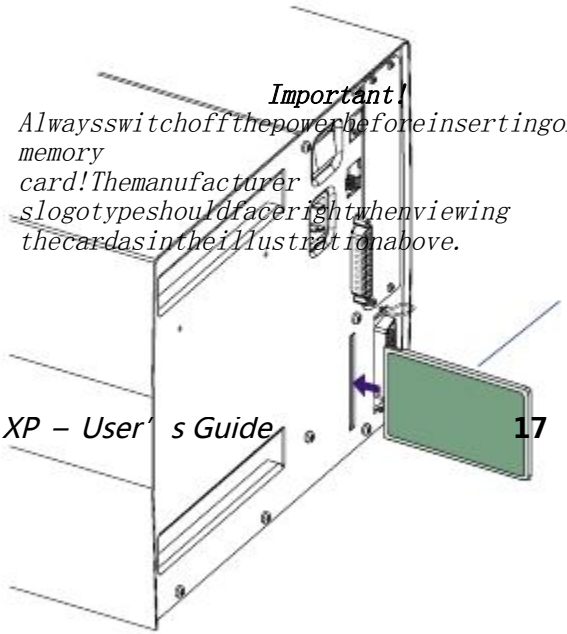
le(IntermecShell)intheread-onlypartofthe
printer’spermanentmemory(device"rom:").

Ifyouinsertamemorycardthatcontainsastartupfilebefore youswitchontheprinter,thisstartupfilewillbeusedinstead ofIntermecShell.

Memory Card

If you want to use a memory card, you must insert it into the slot in the printer's rear plate before you switch on the power. The memory card can be an SRAM card complying with the JEIDA-4 standard or a Flash Memory card from Intermec. Maximum size in both cases is 64Mbit (8MB). There are three types of Flash Memory cards:

- Font Cards provide additional fonts that can be used as long as the card remains inserted in the printer.
- Font Install Cards permanently install additional fonts in the printer, which can be used even after the card has been removed.
- Firmware Cards automatically replace the printer's firmware, usually with a n updated version.



Important!
Alwaysswitchoffthepowerbeforeinsertingorremovinga memory
card!Themanufacturer slogotypeshouldfaceright,whenviewing thecardasintheillustrationabove.

Switching On the Printer

Beforeswitchingontheprinter,makethenecessaryconnections,
insertanymemorycardyouwanttouse,andcheckthatthe

Warning!
Duringstartup,anoptional papercutterwillrotateto homeposition.Alwayskeep thecutterclosedwhenthe powerison.

Display Messages at Startup

Whenthepowerisswitchedon,theprinterisinitialized.The
progressoftheinitializationisindicatedbyanincreasingnumber
ofcolonsonthelowerlineinthedisplay:

```
Initializing
:::
```

Thetypeofstartup fi
lerunningintheprinterisindicatedby
themessageshowninthedisplaywindowimmediatelyafter
initialization.

A. Intermec Shell Startup Program (standard printers)

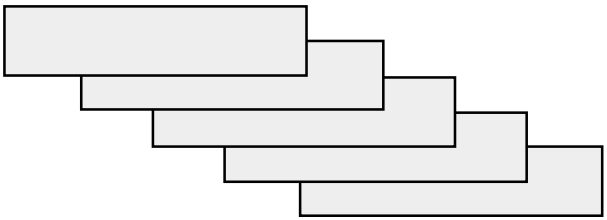
```
ENTER=SHELL
5 sec. v.4.8
     4 sec. v.4.8
          3 sec. v.4.8
               2 sec. v.4.8
                    1 sec. v.4.8
```

RefertoChapter8formoreinformationonIntermecShell.T

he
digitsinthelowerrightcornerofthedisplayindicatethe
version
ofIntermecShell.

B. Custom-Made Application Program (non-standard printers)

Anyotherdisplaymessagesthanthoseillustratedabovein
dicates
thattheprinterisrunningsomecustom-made,non-standar
d
applicationprogram,orthatsomeerrorhasoccurred.



Media Load

Tear-Off (Straight-through)

TheEasyCoder501XPcanprintonlabels,tickets,tags,and continuousstockinvariousforms.Thissectiondescribes thecase whenthemediaistornoffmanuallyagainsttheprinter ’ stearbar.
Thismethodisalsoknownas“straight-throughprinting.”

Usethe<Feed>key(seefigure#11)whenloadingthesame typeofmedia.Whenswitchingtoanewtypeofmedia,orif theprinterdoesnotfeedoutthemediaproperly,simultane ously pressthe<Shift>and<Feed>keystoperforma“testfeed.”

Tear-offcanbeusedfor:

- Non-adhesivecontinuousstock
- Self-adhesivecontinuousstockwithliner
- Self-adhesivelabelswithliner
- Ticketswithgaps,withorwithoutperforations
- Ticketswithblackmarks,withorwithoutperforations

Anoptionallabeltakensensorcanholdtheprintingofthen ext copyinthebatchuntilthepresentcopyhasbeenremoved,se e Chapter9,“Options.”

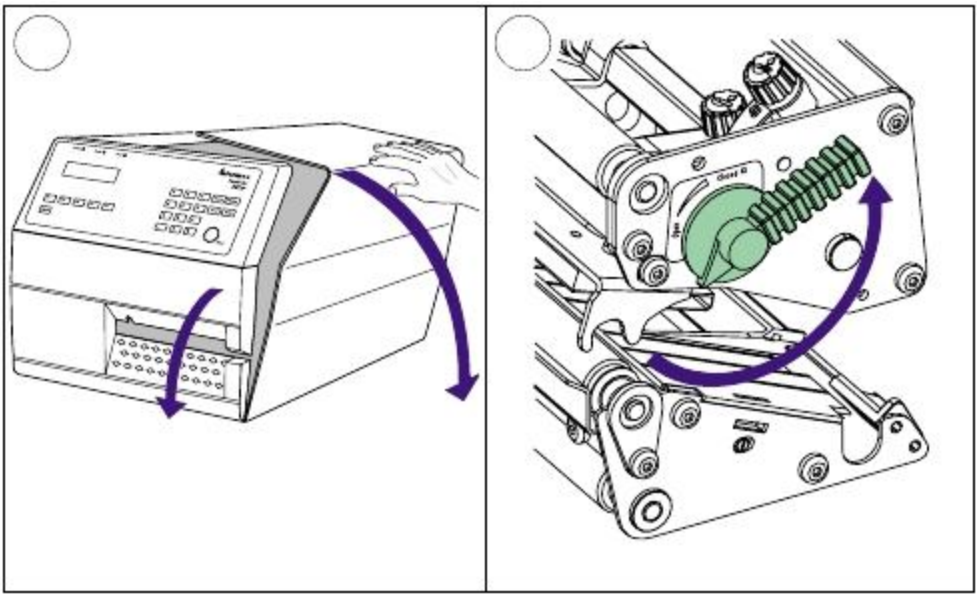
1

Openthefrontandright-handdoors.

2

Turntheprintheadliftleverto”Open”position.

19



Tear-Off, cont.

3 Removeanycorefromthemediasupp	4a mm 38-40 (1.5") Fitanewrollofmediaonthemediasupp
4b mm 76 (3") Incaseofmediarollwitha76mm(3-inc	5 Routethemediaunderneaththeslacka

Tear-Off, cont.

6

Routethemediathroughtheprintunitandpushit inwardsasfarasitwillgo.

8

Turntheprintheadliftleverto “Closed” position.

7

Thisdiagrammshowsthemediapath.

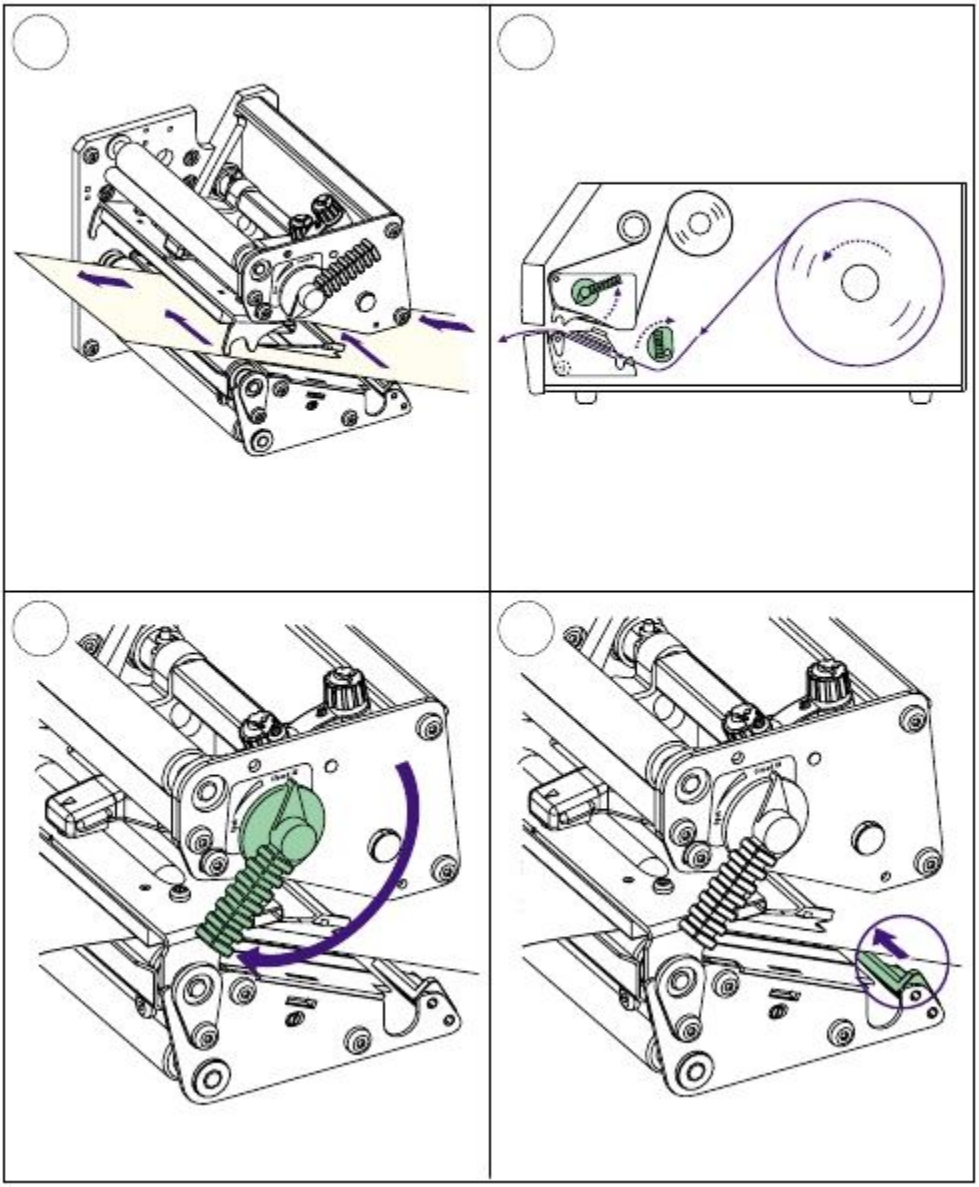
9

Adjustthepositionofthegreenedgeguidesoth

e

mediaisguidedwithaminimumofplay.

21



Tear-Off, cont.

grabtheouteredgeandpull
downwards.

10

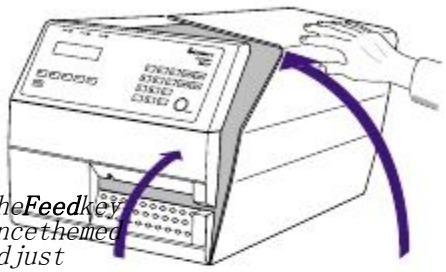
22

Clos
ethe
fron
tand
righ
t-ha
nddo
ors.

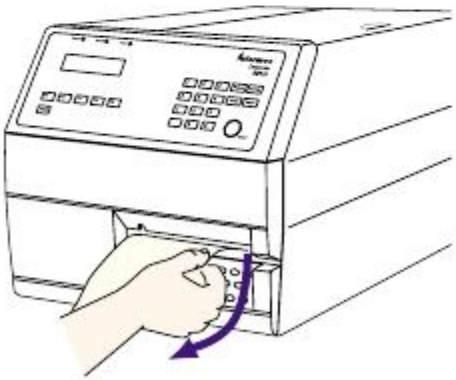
12

Totearoff
themedia,

Feed



Press the ***Feed*** *key to advance the media and adjust the media feed.*



Cut-Off

TheEasyCoder501XPcanprintonlabels,tickets,tags,andcontinuousstockinvariousforms.Thischapterdescribesthecasewhenthemediaisautomaticallycutoffafterprintingusinganoptionalpapercutter.

1

Usethe<Feed>key(see figure#14)whenloadingthesametypeofmediaasbefore.Whenswitchingtoanewtypeofmedia,orifthepprinterdoesnotfeedoutthemediaproperly,simultaneouslypressthe<Shift>and<Feed>keystoperforma“testfeed.”

Cut-offcanbeusedfor:

- Non-adhesivecontinuousstock
- Self-adhesivelabelswithliner

*Notethatthecutter**must not** cutthroughthelabels - onlytheliner -*

ortheadhesivewillsticktothebladesandrenderthecutter inoperableorevendamagethecutter's motor!

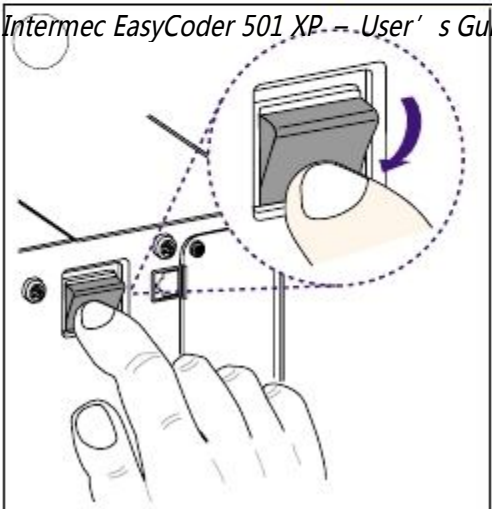
- Ticketswithgapswithoutperforations
- Ticketswithmarkswithoutperforations

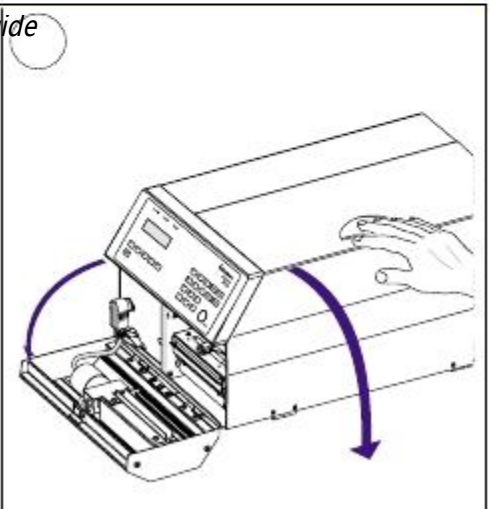
WARNING!

Therotatingcuttingbladecanbeaccidentlyactivatedwhenthe cutterisopened. Toavoidanyriskofinjurytofingers, always switchoffthepowerbeforeloadingmediaand/or ribbonina cutter-equipped printer.

Switchoffthepowerusing theOn/Offswitchon theprinter's rearplate.

Openthecutterunitandtheright-handdoor.





Cut-Off, cont.

3 *Turntheprintheadliftleverto ”*	4 *Removeanycorefromthemediasupp*
5a mm 38-40 (1.5") *Fitanewrollofmediaonthemediasupp*	5b mm (3") *Incaseofmediarollwitha76mm(3-inc*

Cut-Off, cont.

6 *Routethemediaunderneaththeslacka*	7 *Routethemediathroughtheprintunit*
8 *Thisdiagramshowsthemediapat*	9 *Turntheprintheadliftleverto*

Cut-Off, cont.

10 11

Adjustthepositionofthegreenedgeguidesotheroutethemediathroughthecutterbetw
eenthe
mediai
sguide
dwitha 13
minimu
mofpla
y.

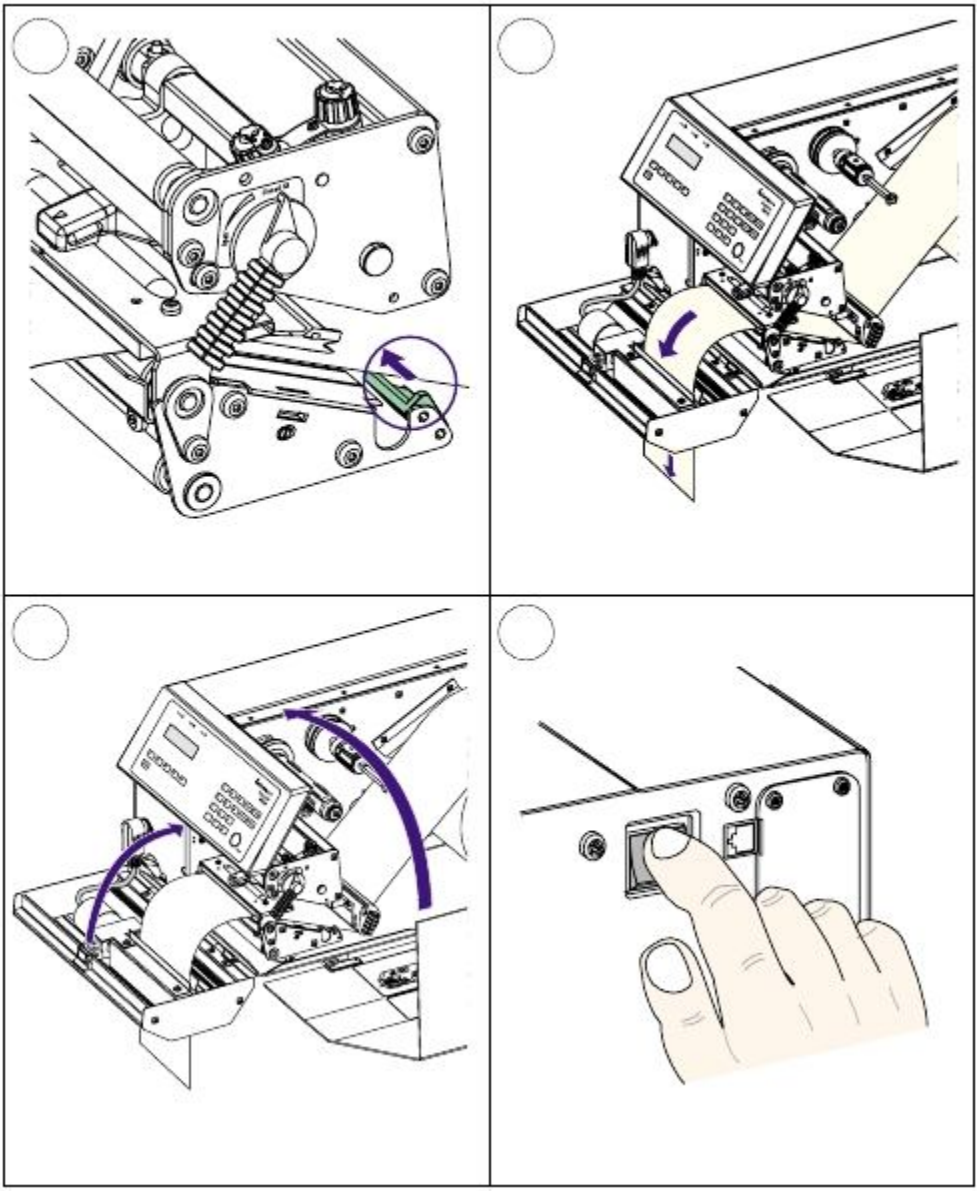
12

Closethecutterunitwhilepullingattheendoftheswitchonthepowerusingtheon/offs

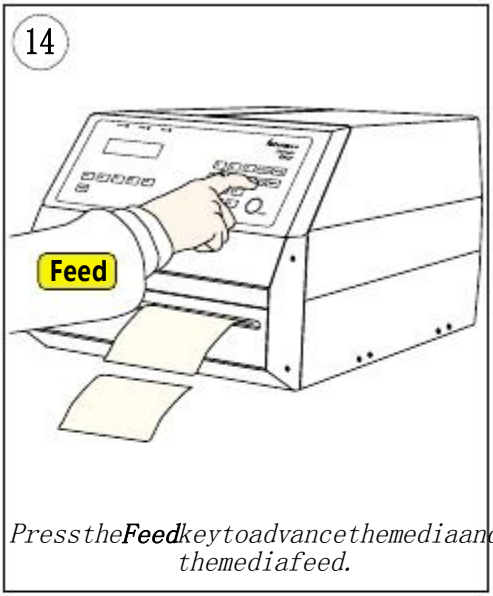
witchon

media.Closetheright-handdoor.

26



Cut-Off, cont.



*Press the **Feed** key to advance the media and adjust the media feed.*

Peel-Off (Self-strip)

TheEasyCoder501XPcanprintonlabels,tickets,tags,and continuousstockinvariousforms.Thischapterdescribes the
casewhenprecutlabels fi
ttedonliner(backingpaper)aretobe
separatedfromthelinerimmediatelyafterprinting.This requires
an**optional**internalliner/batchtakeupunit,onwhichthe liner
iswoundupafterthelabelshavebeenprintedanddispensed .
Thisisalsoknownas “Self-strip” operation.

Usethe<**Feed**>key(see**fi**gure#15)whenloadingthesametype ofmediaasbefore.Whenswitchingtoanewtypeofmedia,ori f
theprinterdoesnotfeedoutthemediaproperly,simultane ously
pressthe<**Shift**>and<**Feed**>keystoperforma “testfeed.”

Peel-offcanbeusedfor:

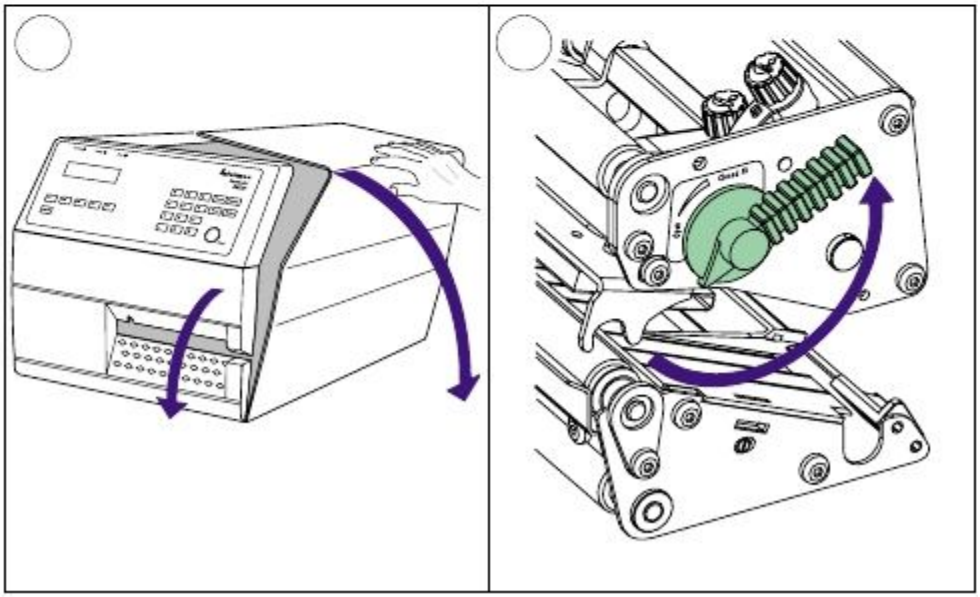
- Self-adhesivelabels**fi**ttedonliner.

Anoptionallabeltakensensorcanholdtheprintingofnext label
inabatchuntilthepresentlabelhasbeenremoved,seeChap ter
9, “Options.”

Openthefrontand
right-handdoors
.

2

Turntheprintheadliftleverto”Open”position.

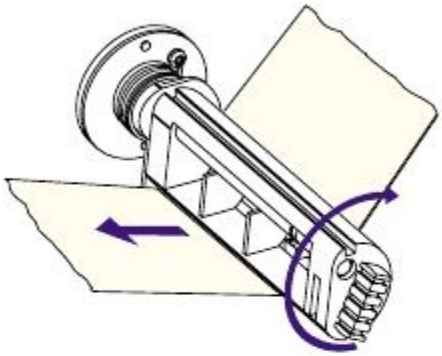


Peel-Off, cont.

3 2. 1. *Pullout thegreenclip(1)ontheliner*	4 *Removeanycorefromthemediasupp*
5a mm 38-40 *Fitanewmediarollonthemediasupply*	5b mm (3") *Incaseofmediarollwitha76mm(3-inc*

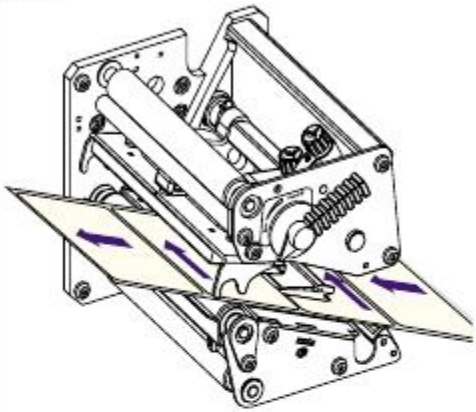
Peel-Off, cont.

6



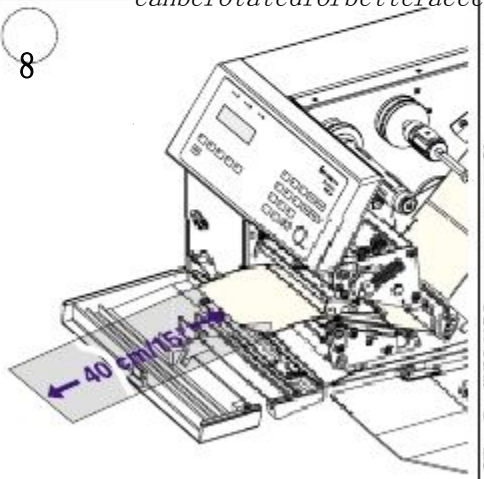
Routethemediaunderneaththeslackabsorberand forwardtowardstheprintunit.Theslackabsorber can berotatedforbetteraccess.

7

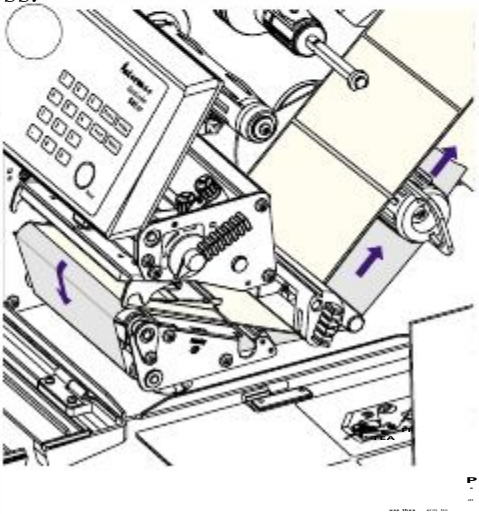


RoutethemediathroughtheprintunitandpushitbackunderandremovethelabelsfromtheLiner.

8



Pulloutapproximately40cm(15inches)oflabels

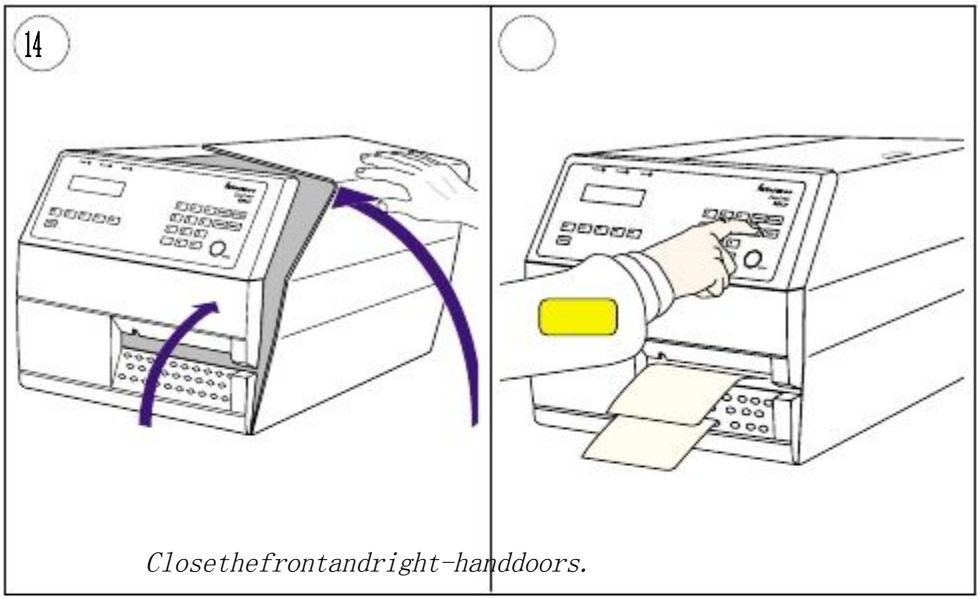


RoutethelineraroundthetearbarandbackunderandremovethelabelsfromtheLiner.

Peel-Off, cont.

10 1	11 *Thisdiagramshowsthepathsofthelab*
12 *Turntheprintheadliftleverto*	13 *Adjustthepositionofthegreenedgeg*

Peel-Off, cont.



Internal Batch Takeup

TheEasyCoder501XPcanprintonlabels,tickets,tags,and continuousstockinvariousforms.Thischapterdescribes the
casewhenprintedlabels fi
ttedonliner(backingpaper)orpre-
perforatedticketsandtagsarewoundupinsidetheprinter. The
rollofprintedlabels,tickets,ortagscanthenberemoved andbe
handledmanually.Thisrequiresanoptionalinternalline r/batch
takeupunit.

Thetakeuphubcanaccommodate1/4to1/3ofafull-sizemedia roll.

Usethe<Feed>key(seefigure#16)whenloadingthesametype ofmediaasbefore.Whenswitchingtoanewtypeofmedia,ori f
theprinterdoesnotfeedoutthemediaproperly,simultane ously
pressthe<Shift>and<Feed>keystoperforma“testfeed.”

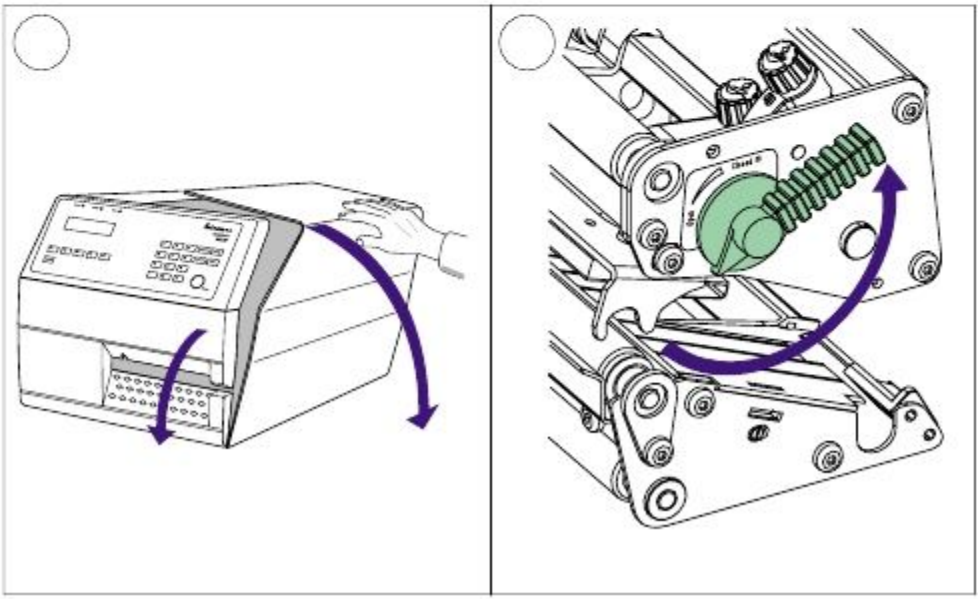
Internalbatchtakeupcanbeusedfor:

- Self-adhesivelabelsfittedonliner
- Preperforatedticketswithgaps
- Preperforatedticketswithmarks

1 *Open the front and right-hand doors.*

Turntheprintheadliftleverto “Open” position.

33



Internal Batch Takeup, cont.

3 4

Loosenthesinglescrewthatholdstheguideplateat therearofthemediacompartment.

Removea nycoref romthem ediasup plyhub. 6a

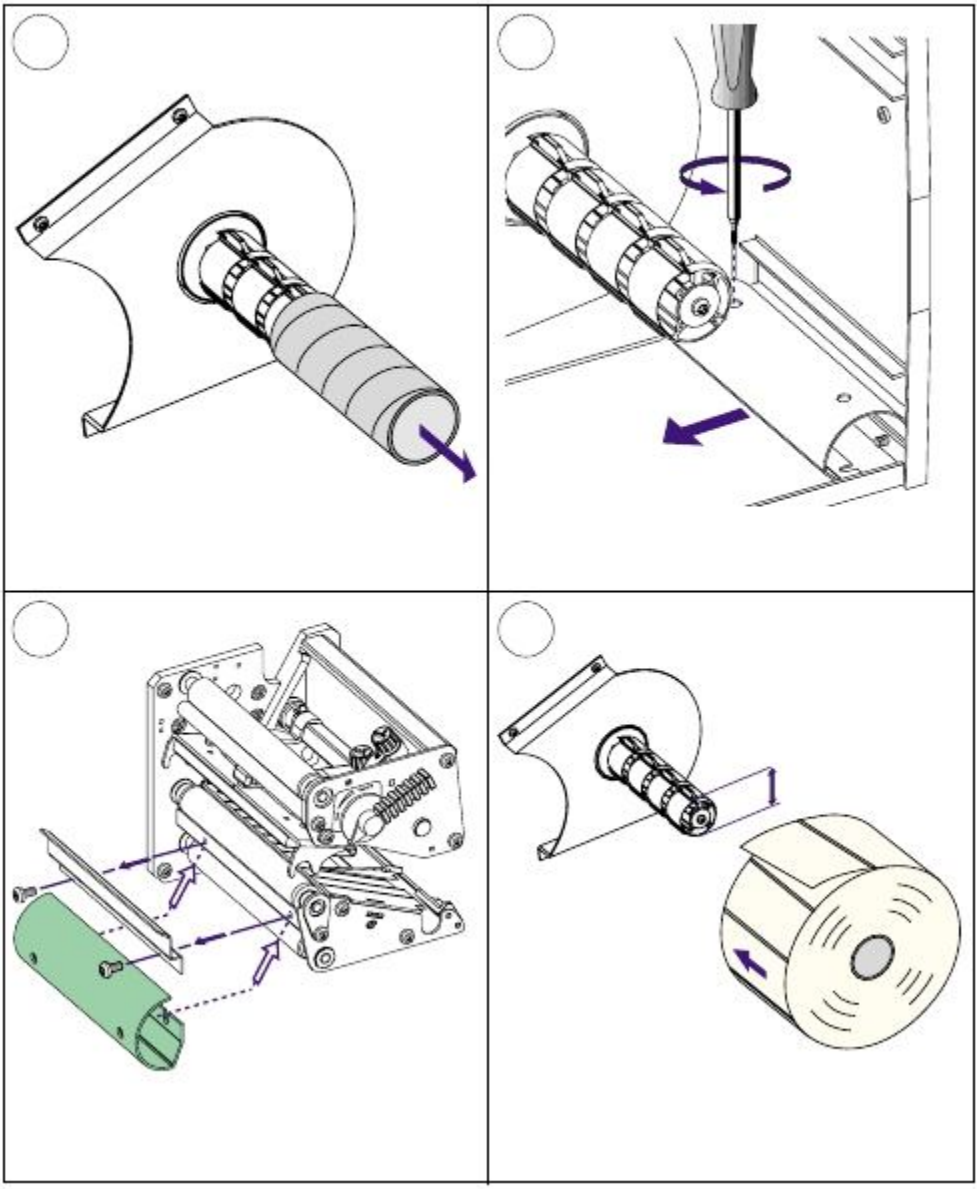
5

mm

(1.5"

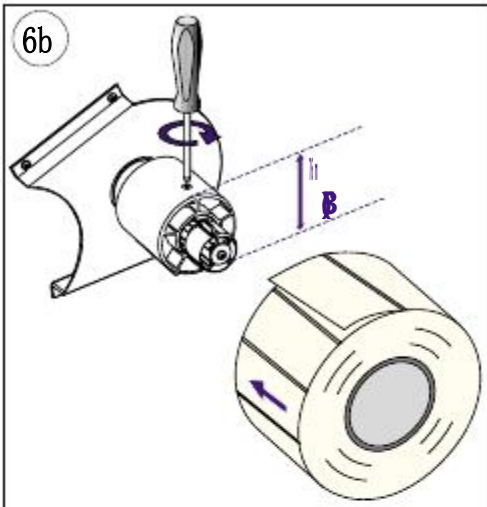
Removethetearbarfromtheprintunitandreplace Fitanewmediarollonthemediasupply huband

pushtherollinwardsasfarasitwillgo.

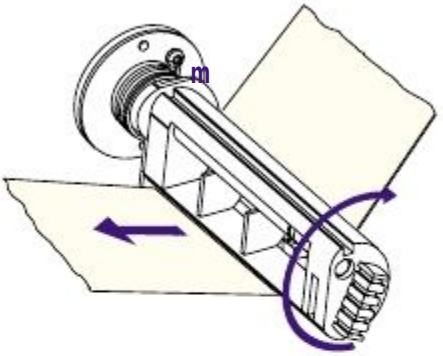


Internal Batch Takeup, cont.

6b



7



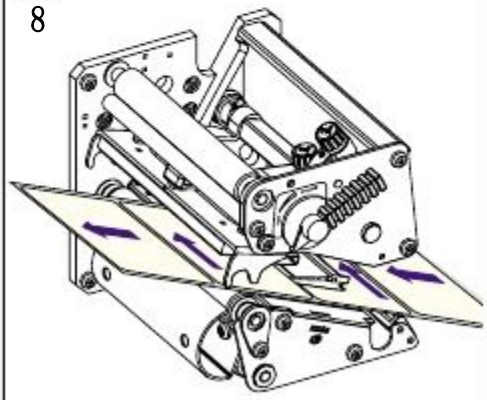
Route the media underneath the slack absorber and

In case of media roll with a 76mm (3-inch) core, forward towards the print unit. The slack absorber

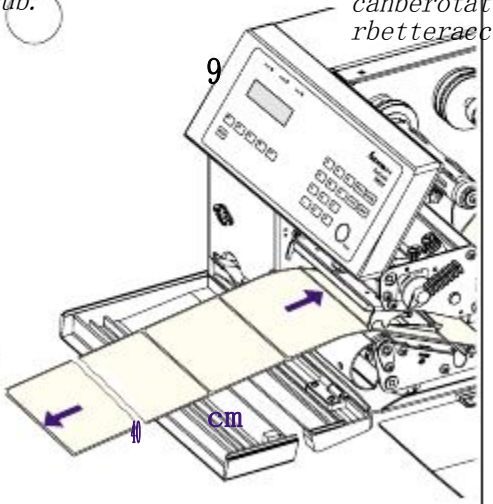
first fit an adapter on the media supply hub.

can be rotated for better access.

8



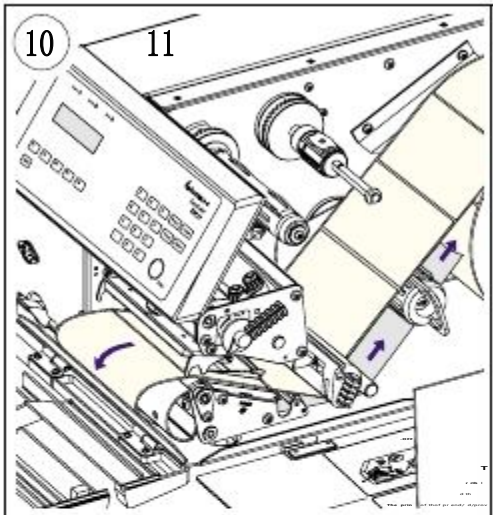
9

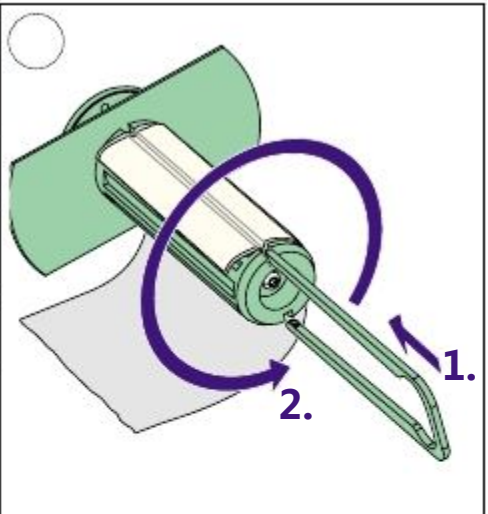


Route the media through the print unit and push it

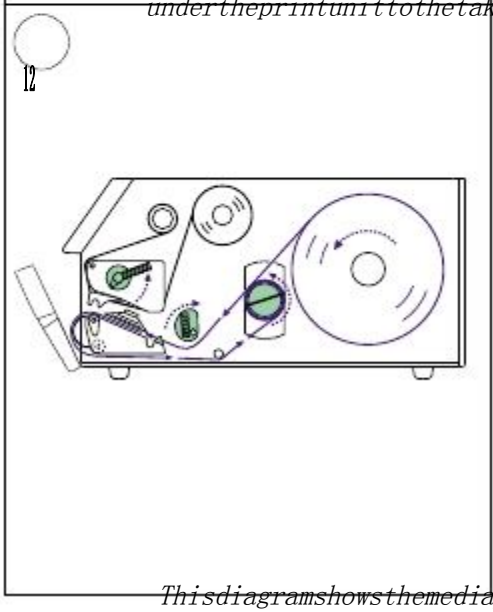
inwards as far as it will go. Pull out approximately 40cm (15 inches) of labels.

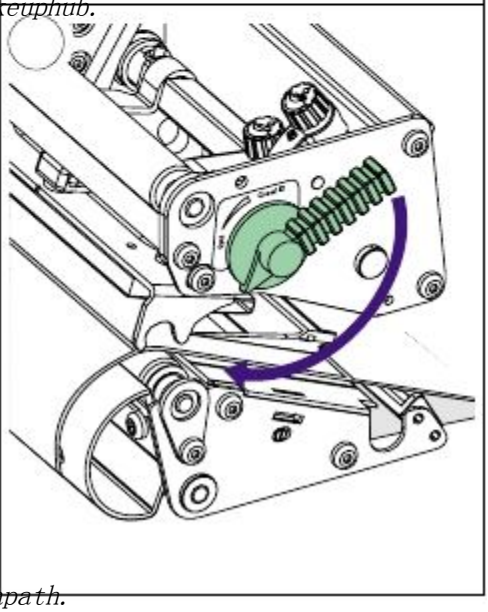
Internal Batch Takeup, cont.





Routethelabelsaroundtheguideplateandback Windupsomeofthemediaonthetakeuphub and
underthe printunittothetakeuphub.

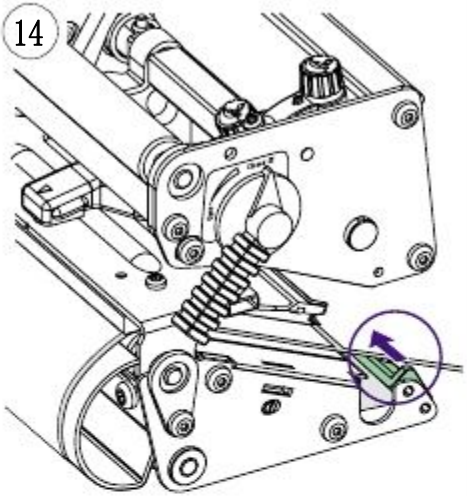




Thisdiagramshowsthemediapath.

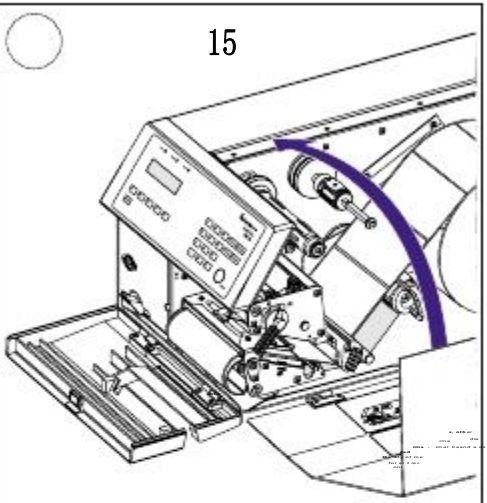
Internal Batch Takeup, cont.

14



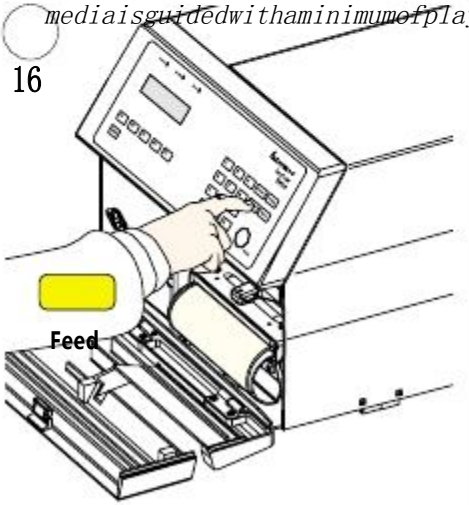
Adjust the position of the green edge guides so the media is guided with a minimum of play.

15



Close the right-hand door but keep the front door open.

16



Press the **Feed** *key to advance the media and adjust the media feed.*

External Supply (Fan-fold)

This chapter describes the case when an external media supply is used, for example a stack of fan-fold tickets or an external media roll.

It is possible to simply let the media enter the printer through either of the two slots in the rear plate. However, we recommend to fit the optional IntermecFan-Fold Kit, which provides better guidance of the media using adjustable guides. The kit can be fitted to either the upper or the lower slot in the rear plate.

When using an external media supply, take care to protect the media from dust, dirt, and other foreign particles, that can impair the printout quality or cause unneccessary wear to the print head.

Depending on brand and quality, all direct thermal media are more or less sensitive to heat, direct sunlight, moisture, oil, plasticizers, fat, and other substances. Protect it accordingly.

External supply can be used for:

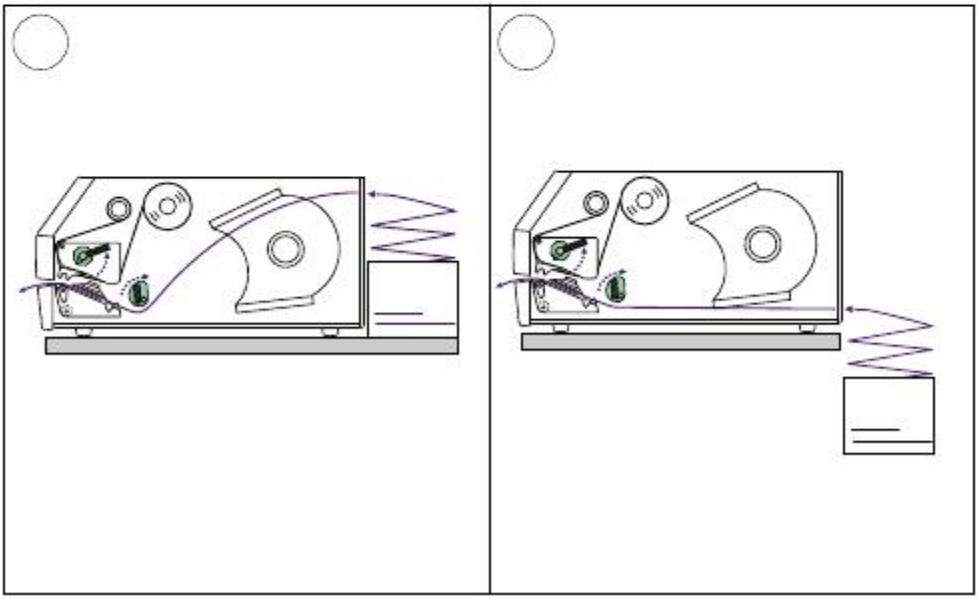
- Tear-off operation
- Cut-off operation
- Peel-off operation (upper slot only)
- Internal batch take up operation

1 2

Usetheupperslotintherearplatewhenthesupply isatthesamelevelastheprinterandwhenusingUsethelowerslotintherearplatewhenthesupply

peel-offoperation.

38



External Supply, cont.

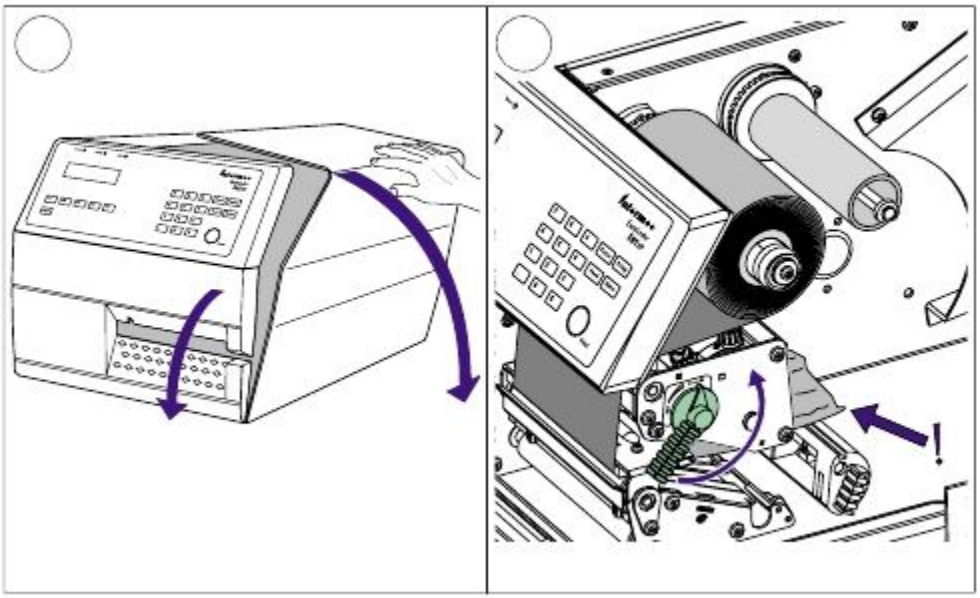
3 *Asanoption,theprintercanbe* ***fi***	4 *Theouterguideisadjustableformedi*
5 *Fitthefanfoldguideintheupperslot*	6 *Fitthefanfoldguideinthelowerslot*

Chapter 5

Thermal Transfer Printing

Ribbon Load

Openthefrontandright-handdoors.



Ribbon Load, cont.

3 *Incaseofribbonreload,removeanyus*	4 *UnpackarolloforiginalIntermecthe*
5a 60 mm (2.3") #1 *Incaseofribbonupto60mm(2.3inches* *)wide,*	5b 88 - 90 mm (3.5") #2 *Incaseof88to90mm(3.5inches)ribbo* *nwidth.*

Ribbon Load, cont.

5c

110 mm

2.

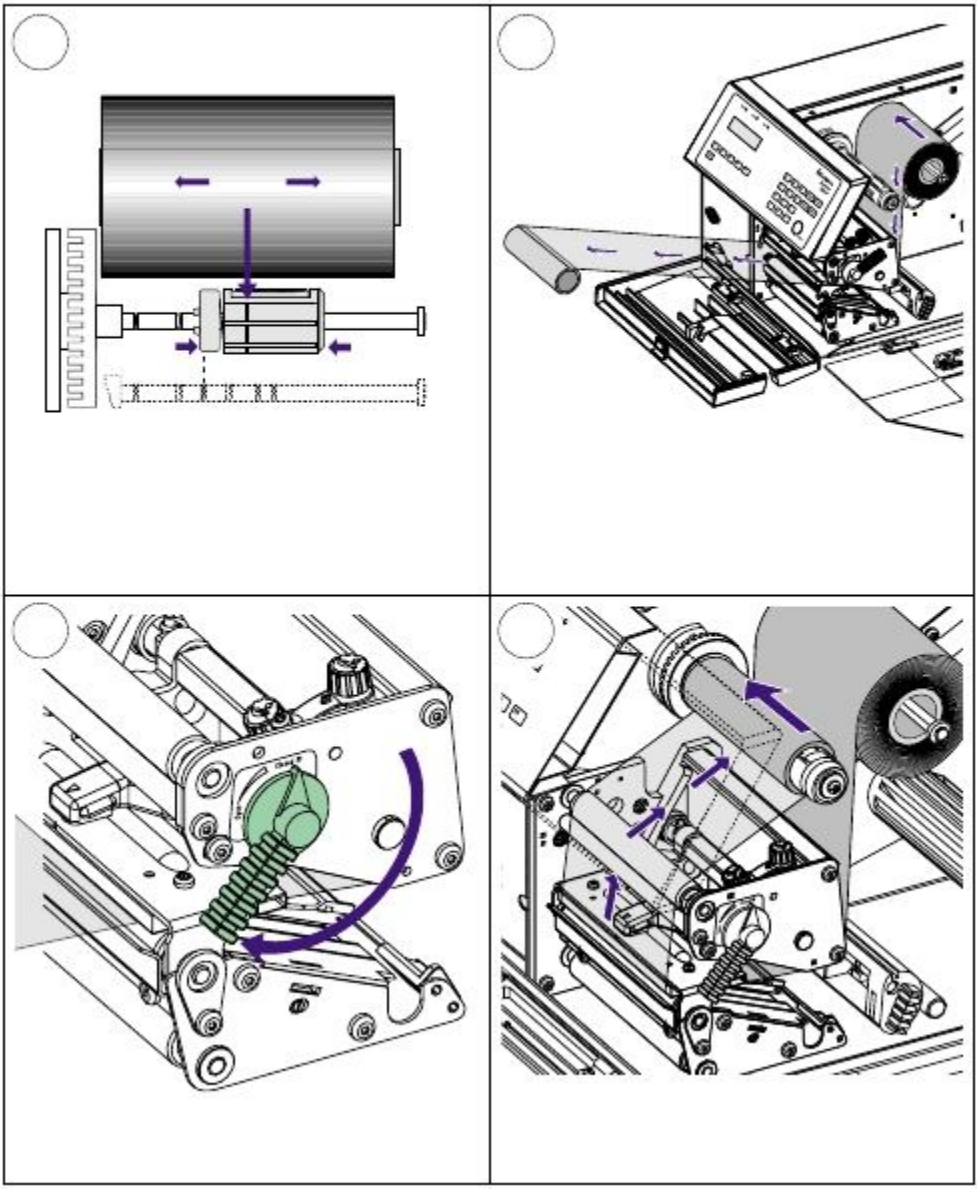
#3

Incaseof110mm(4.3inches)ribbonwidth,Presstheribbonrollontotheribbonsupplyb
obbin
compresstheribbonsupplybobbinandmoveitsoit(1)androutetheribbonthroughthepr
intunit.Pull
snapsintothe3:rdgroove.

7

Pressthecardboardcoreatthefrontendofthe
ribbon
Withoutreleasingtheribbon,turntheprintheadliftontotherewindhub.Duringprint

ing, bothhubs
leverto “Closed” positiontolocktheribbon.



Ribbon Load, cont.

9

Turntheprintheadliftleverto “Open” position.

10

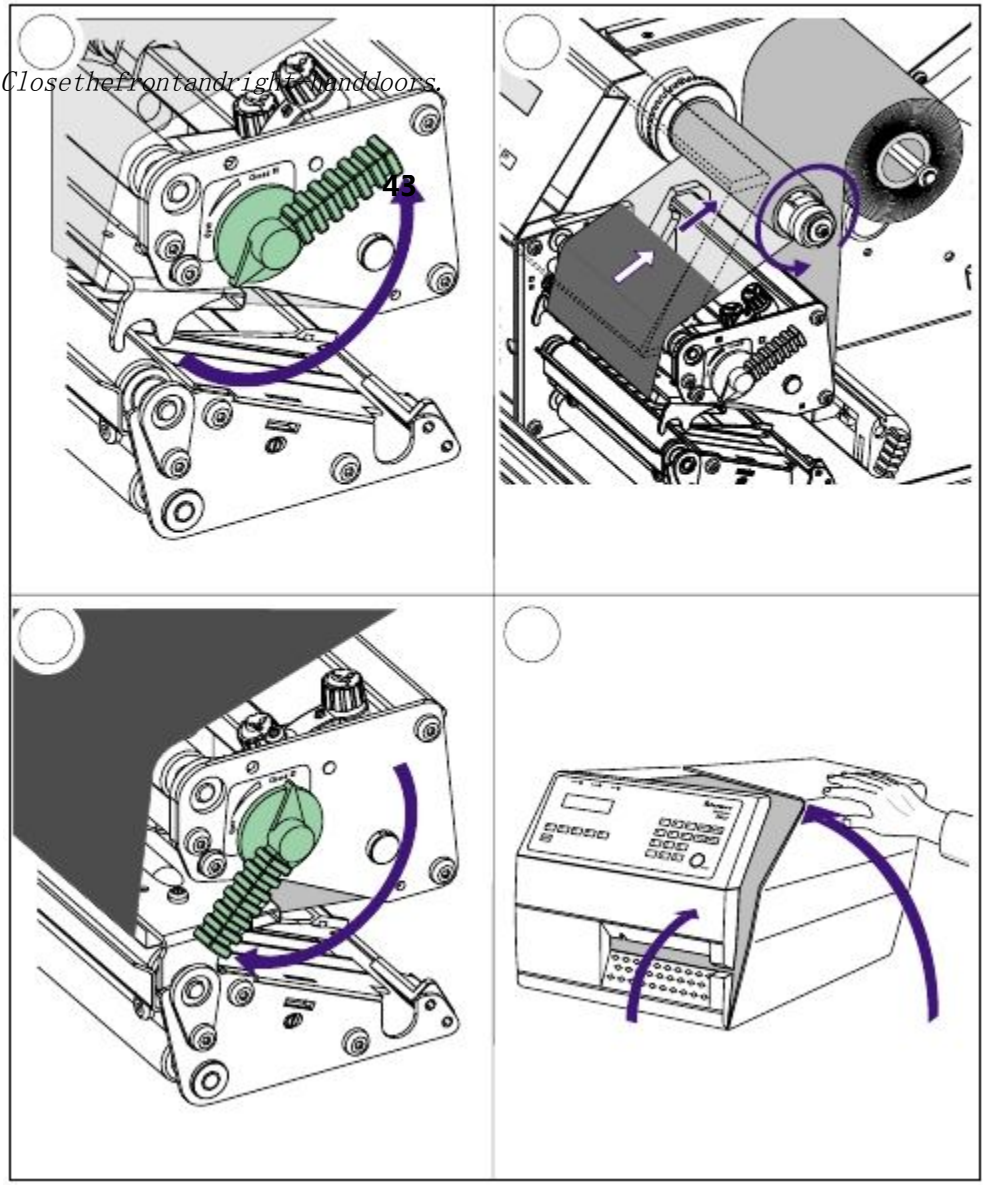
Windupthe ribbonuntil allofthetr ansparent leaderhasp assedthepr intheadand theribbon becomestigh t.

11

Turntheprintheadliftleverto “Closed” position.

12

Closethefrontandrightsidedoors.



Chapter 6

Setting Up the Printer

Description

etersremotely
fromthehost.
SeetheIntermecFingerprintv7.61manuals.

- **Intermec Direct Protocol**

–Use*setupstrings*tochangeindividualsetupparameters
remotelyfromthehost.
SeetheIntermecDirectProtocolmanuals.

Default Setup

Theprinter ’sdefaultsetupislistedbelow:

Ser-Com "uart1:"

Baudrate.....
.....
....
Characterlength.....
.....
.
Parity.....
.....
.....
Stopbits.....
.....
.....
RTS/CTS.....
.....
..
ENQ/ACK.....
.....
XON/XOFF,datatohost.....
.....
XON/XOFF,datafromhost.....
.....
Newline.....
.....
....
Receivebuffer.....
.....
..
Transmitbuffer.....
.....
.

Feedadjust:

Startadjust.....
.....
.....
Stopadjust.....
.....
.....

Media:

X-start.....
.....
.....
Width.....
.....
.....

.....	9600bps
Mediatype.....	8bits
.....	None
..	1bit
Papertype.....	Disable
.....	Disable
....	Disable
Ribbonconstant.....	Disable
.....	CR/LF
Ribbonfactor.....	300bytes
.....	300bytes
.	
Labeloffset.....	0
.....	0
....	
Lowdiameter.....	
.....	36
	1244
.	
Contrast.....	1800
.....	Label(wGaps)
	Thermaltransfer
.....	
Print Defines:	90
	25
Printspeed.....	0
.....	36
....	±0%
	150mm/sec.

Reading the Current Setup

Theprinter ,
scurrentsetupvaluescanbereadfromtheprinter’s displaywindowbybrowsingthroughtheSetupMode.

Youcanlisttheprinter ,

scurrentsetupvaluesbyprintingtestlabel #5intheSetupModeorbyusingIntermecShell.

Thecurrentsetupvaluescanbesenttothehostviathe standardserialcommunicationchannelusinga**SETUP WRITE "uart1:"** statement(see*IntermecFingerprintv7.61,Program-mer’sReferenceManual).*

Setup Parameters

Serial Communication
- Baud Rate
- Character Length
- Parity
- Stop Bits
- Flow Control
- New Line
- Receive Buffer
- Transmit Buffer

The serial communication parameters control the communication between the printer and the connected computer or other devices on the standard serial port "uart1:" and the optional serial ports "uart2:" and "uart3:". The optional ports require an optional interface board. The printer's firmware detects if an interface board is installed in the printer and presents additional sets of communication setup menus depending on type of communication (refer to diagrams 3-5 in Chapter 7, "Setup Mode").

The serial communication parameters have no effect on parallel communications, on Ethernet communications, or on the IN and OUT ports on the optional Industrial Interface Board.

For the serial communication channel "uart1", the following parameters can be set. Make sure they match the setup of the connected device or vice versa. If the setup of the printer and the setup of the host do not match, the response from the printer to host will be garbled.

Baud Rate

The baud rate is the transmission speed in bits per second. There are 9 options:

300
600
1200
2400
4800
9600
- 19200
- 38400
- 57600

Setup Parameters, cont.

Serial Communication, cont. Character Length

Thecharacterlengthspeci fi esthenumberofbitsthatwilldefine acharacter. Eightbitsarerecommended, becausethatopti on allowsmorespecialcharactersandcharactersspeci fi cforforeign languagestobeused. Refertothe*IntermecFingerprintv7. 61, Programmer sReferenceManual*forinformationonwhichcharac- tersareavailableinvariouscombinationsofcharacterle ngthand characterset.

- 7 CharactersASCII000to12
- 8 7decimal CharactersASCII000to25 5decimal(default)

Parity

Theparitydecideshowthe fi rmwarewillcheckfortransmission errors. Therearefiveoptions:

- None(default)
- Even
- Odd
- Mark
- Space

Stop Bits

Thenumberofstopbitsspecifieshowmanybitswilldefinethe endofacharacter. Therearetwooptions:

- 1 (default)
- 2

Flow Control

- *RTS/CTS*

  RTS/CTSisaprotocolwherethecommunicationiscon- trolledbycurrentsthroughseparatelinesinthecableb eingset eithertohighorlow. Bydefault, thisoptionisdisabled . RTShighindicatesthatthetransmittingunitisabletor eceive

characters. RTS low indicates that the receive buffer is filled to 75% (see XON/XOFF).

CTS high indicates that the unit transmitting the CTS signal is ready to receive data. CTS low indicates that the receive buffer is full (see XON/XOFF). In some computer programs, for example MS Windows Terminal, RTS/CTS is designated "Hardware."

Setup Parameters, cont.

Serial Communication, cont.

- *ENQ/ACK*

  In this protocol, the communication is controlled by the control characters ENQ (ASCII 05 dec.) and ACK (ASCII 06 dec.) being transmitted on the same line as the data. The sending unit transmits ENQ at regular intervals. If the response ACK is not received, the transmission is held up awaiting an ACK character from the receiving unit. By default, ENQ/ACK is disabled.

- *XON/XOFF*

  In this protocol, the communication is controlled by the control characters XON (ASCII 17 dec.) and XOFF (ASCII 19 dec.) being transmitted on the same line as the data. XON/XOFF can be enabled/disabled separately for data received from the host by the printer (printer sends XON/XOFF) and for data transmitted to the host from the printer (host sends XON/XOFF).

  XOFF is sent from the printer when its receive buffer is filled to 75%, and the transmission from the host is held, waiting for an XON character. When enough data have been processed so the receive buffer is filled only to 50%, the printer sends an XON character and the host resumes transmitting data. The same principles apply to XON/XOFF sent by the host, even if the percentage figure may differ.

  By default, XON/XOFF is disabled for data both ways.

New Line

Selects the character(s) transmitted from the printer to specify the switching to a new line. There are three options:

- LF
- CR

ASCII13dec. +ASC t)
II10dec. (defaul ASCII10dec.
ASCII13dec.

Receive Buffer
Thereceivebufferstorestheinputdatareceivedontheser
ial
channelbeforeprocessing. Defaultsizeis300bytes.

Transmit Buffer
Thetransmitbufferstorestheoutputdatatobetransmitte
don
theserialchannelbeforetransmission. Defaultsizeis30
0bytes.

Setup Parameters, cont.

Feedadjust

- Startadjust
- Stopadjust

Recommended Feed Adjustments

Thefollowingsettingsallow printingfromthetopofthe label.Minordeviationsfrom therecommendedvaluesmay berequiredduetovarious combinationsofmediatypes, rollsize,typeofmediasupply device,andindividualdif- ferencesbetweenprinters.

Tear-Off:
Startadjust:-175dots
Stopadjust:0dots

Cut between labels:
Startadjust:-441dots
Stopadjust:270dots

Cut variable length strip:
Startadjust:-441dots
Stopadjust:375dots

Peel-Off:
Startadjust:-115dots
Stopadjust:-60dots

TheFeedadjustpartoftheSetupModecontrolshowmuchofthemediaisfedoutorpulledbackbeforeand/oraftertheactual printing.Thesesettingsareglobalandwillbeeffectedregardless ofwhichprogramisrun.

Notethatthe ***fi*** *rmwareusesthefrontedgesoflabelsw.gaps,theendsofdetectionslots,andtheforwardedgesofblackmarksfordetection,allseeninrelationtothefeeddirection.*

Start Adjust

TheStartAdjustvalueisgivenasapositiveornegativenumber

ofdots(1dot=0.125mm=4.9mils).Defaultvalueis0,which placestheoriginacertaindistancebackfromtheforwardedge ofthecopy.

- A**positive**startadjustmentmeansthatthespecified lengthofmediawillbefedoutbeforetheprintingstarts.Thus, the originismovedfurtherbackfromtheforwardedgeofthe copy.
- A**negative**startadjustmentmeansthatthespecified lengthof mediawillbepulledbackbeforetheprintingstarts. Thus, the originismovedtowardstheforwardedgeofthecopy.

Stop Adjust

TheStopAdjustvalueisgivenasapositiveornegative number ofdots(1dot=0.125mm=4.9mils).Defaultvalueis0, whichstopsthemediafeedinapositionsuitablefortearoff operation.

- A**positive**stopadjustmentmeansthatthenormalmedia feedafter theprinting iscompleted willbeincreasedby the specified value.
- A**negative**stopadjustmentmeansthatthenormalmedia feedafter theprinting iscompleted willbedecreasedby the specified value.

Setup Parameters, cont.

Media **50**

- Media Size
- Media Type
- Paper Type
- Testfeed
- Contrast

The media parameters tell the firmware the characteristics of the media that will be used, so the print out will be positioned correctly and get the best quality possible.

Media Size

The size of the printable area is defined by three parameters; X-Start, Width, and Length.

X-Start

Specifies the position of the original gt hedots on the print-head.

By default, X-start is 36 dots, which places the inner margin of the print area 3 mm (0.118 inches) from the inner edge of the media and gives a maximum print width of 1244 dots (103.7 mm/4.1 inches). This prevents printing outside labels when the liner is slightly wider than the labels.

If you want to use the entire media width, reset the X-start value to 0 which gives a maximum print width of 1280 dots (106.6 mm/4.2 inches).

By increasing the value for the X-start parameter, the origin will be moved outwards, away from the inner edge of the media path. In other words, the larger X-start value, the wider inner margin and the less available print width.

Width

Specifies the width of the printable area in number of dots from the origin. Thus, the sum of the X-start and width values gives the outer margin of the printable area. The width should be set to prevent printing outside the media, which may harm the printhead.

Length

Specifies the length of the printable area in number of dots from the original ong the Y-coordinate and allocates memory space for two identical image buffers in the printer's temporary memory. The size of each buffer can be calculated using this formula:

Buffer size (bits) = [Print length in dots] x [Printhead width in dots]

Note that the temporary memory has other functions that also require some memory space. To obtain a longer print area, the memory can be increased by fitting a larger DRAM SIMM on the printer's CPU board as described in the Service Manual.

Setup Parameters, cont.

Media, cont.

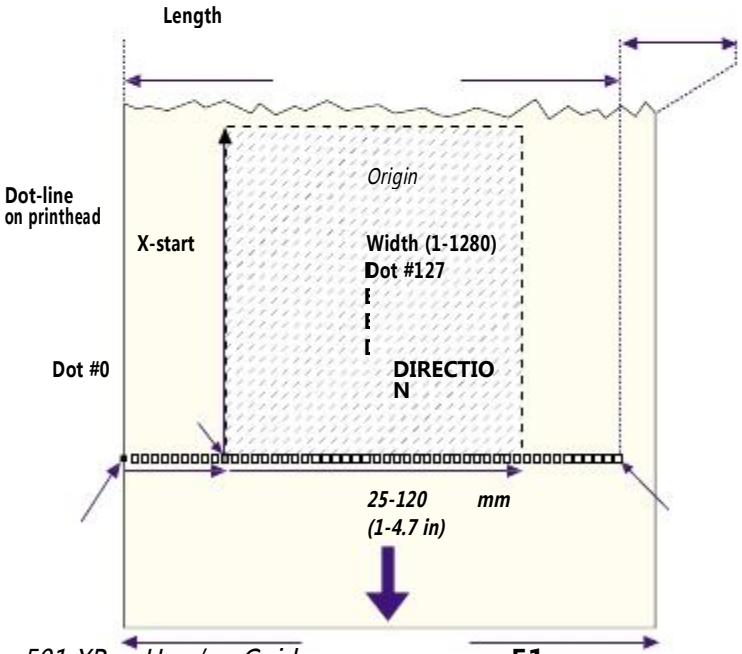
Length, cont.

- The length setup also decides the amount of media feed when using “fixed length strip.”
- The length setup creates an emergency stop, which works when the printer is setup for “Label (w gaps)”, “Ticket (w mark)”, or “Ticket (w gaps).” If the label stop sensor (LSS) has not detected a gap or mark within 150% of the set length, the media feed is automatically stopped to avoid feeding out a

wholerollofmedia,becauseofanLSSmalfunction.
BysettinguptheX-start,theWidth,andtheLength,yo
u
willcreateaprintwindowinsidewhichtheprintingca
nbeper-
formed.Anyobjector fi
eldextendingoutsidetheprintwindow
inanydirectionwilleitherbeclippedorcauseanerro
rcondition
(*Error1003
“Fieldoutoflabel”*),see*IntermecFingerprintv7.6
1,
Programmer’sReferenceManual*.

13.4 mm (0.52 in)

max. 106.6 mm (4.2 in)



Setup Parameters, cont.

Media, cont.

Media Type

The Media Type parameters control how the label stop sensor (LSS) and the media feed work. There are five media type options:

- **Label (wgaps)** is used for adhesive labels mounted on liner.
- **Ticket (wmark)** is used for labels, tickets, or continuous stock provided with black marks at the back.
- **Ticket (wgaps)** is used for tickets and tags with detection slits.
- **Fix length strip** is used for continuous stock where the length of the print window decides the length of media to be fed out.
- **Var length strip** is used for continuous stock and adds 115 dots of media feed after the last printable dot (may even be a blank space character or a "white dot" in an image or character cell) to allow the media to be properly torn off.

It is important to select the correct media type, so the printer can indicate possible errors. Two error conditions may occur:

- *Error 1005 "Out of paper"* indicates that the last ordered copy could not be printed because of an empty media stock.
- *Error 1031 "Next label not found"* indicates that the last ordered label or ticket was successfully printed, but no more labels/tickets can be printed because of an empty media stock.

Setup Parameters, cont.

Media, cont.

Paper Type

ThePaperTypeparameterscontroltheheatemittedfromtheprintheadtothedirectthermalmediaorthetransferribboninordertoproducethedotsthatmakeuptheprintoutimage.Startbychoosingbetweentwoalternatives:

- ThermalTransferprinting(default)
- DirectThermalprinting(option)

Yourchoicewilldecidewhichparameterstoenternext:

ThermalTransferPrinting(option)

Thisoptioncontainsfourparamete

rs:

• RibbonConstant	*(range50to*
• RibbonFactor	*115)*
• LabelOffset	*(range10to*
	50)
	(range-50t
	o50)

DirectThermalPrinting

Thisoptioncontainstwoparameters:

• LabelConstant	*(range50to*
• LabelFactor	*115)*
	(range10to
	50)

Setup Parameters, cont.

Media, cont.

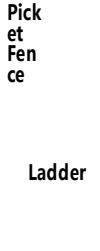
ThermalTransferPrinting
KeeptheRibbonFactorforeachribbontypeattherecommendedvalue. DecreaseorincreasetheRibbonConstantforlighterordarkerimagesrespectively. Foranewlabelmaterial, startwithanaverageRibbonConstantvaluefortheribbonqualityinquestion.

DirectThermalPrinting
Intermecrecommendsthatyouusethepapertypeandprintspeedsettingslistedbelowtoproducethehighestpossibleprintqualityundernormalconditionsandtoensuremaximumlife-timeoftheprinthead. LabelmaterialsareavailablefromIntermeceitherinstandardtypesandsizes, orinspecialmaterialsandsizes.

Whenadjustingtheimagedarknessforindividualrequirementsornewlabelmaterials, keeptheLabelFactorattherecommendedvalueforthetypeofdirectthermalmedia. DecreaseorincreasetheLabelConstantforlighterordarkerimagesrespectively, dependingontherequirementsoftheimagesorofthenewlabelmaterial.

Bar Code Directions

BarCodeDirections
Inthetablesonthepagesthatfollow, differentmaximumprintspeedsmayberecommendeddependingonthedirectionofpossiblebarcodesintheprintout. Generally, ladderstylebarcodesaremoredemandingandmayrequirealowerprintspeed, especiallyinconnectionwithalargemediarolland/ornegativestartadjustvalues(see “PrintSpeed” laterinthischapter). The illustrationtotheleftshowshowthetwotypeofbarcodedirectionsrelatetothemediafeeddirection.



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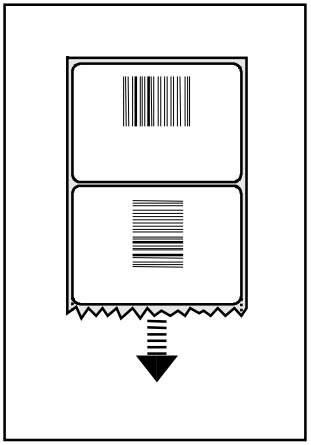


Setup Parameters, cont.

Media, cont.

Direct Thermal Printing (Europe)

DT Type/ Speed	Media Designation	Label Constant
Top Coated/ Standard	Thermal Top Board[3]	100
	Thermal Top	95
Non Top Coated/ Standard	Thermal Eco	85
	Thermal Eco Board[3]	80
Top Coated/High Thermal Top High Speed 80	30	250

Thermal Transfer Printing (Europe)

Ribbon Type	Receiving Material	Ribbon Constant
GP02	TTR Uncoated	80
	TTR Coated	80
	TTR Premium	70
HP07	TTR Coated	100
	TTR Premium	90
	TTR Premium Board[3]	105
	TTR Polyethylene	85
HP66	TTR Coated	100
	TTR Premium	90
	TTR Premium Board[3]	105
	TTR Polyethylene	85
	TTR Gloss Polyethylene	90
HR03	TTR High Gloss Polyester	100

200 200 200

1
(+59° F), decreaseprintspeedby100mm/sec.
2
3

/. Exceedingtherecommendedprintspeedmaycausetheprintheadtowearoutprematurely. Iftheambienttemperatureislowerthan

/. Alsoappliestoprintingoftext, images, lines, andbox
/. Requireshighprintheadpressure (seeChapter12

Setup Parameters, cont.

Media, cont.

Direct Thermal Printing (North America)

DT Type/ Speed	Media Designation
Top Coated/ Standard	Duratherm II Tag[3] Duratherm II
Top Coated/ High	Duratherm Ltg Duratherm IR

Thermal Transfer Printing (North America)

Ribbon Type	Receiving Material
TMX 1500	Duratran I Duratran VG Duratran II Duratran II Tag 65
	65
TMX 2500	Duratran II Duratran II Tag

300 300

60

TMX 3200 Polyester
1 *tureislowerthan+15° C(+59° F), decreaseprintspeedby100mm/sec.* 2 3

/. Exceedingtherecommendedprintspeedmaycausetheprintheadtowearoutprematurely. Iftheambien

/. Alsoappliestoprintingoftext, images, lines, andbo
/. Requireshighprintheadpressure(seeChapter12

Setup Parameters, cont.

Media, cont.

Print Defines
- Head Resistance
- Testprint
- Print Speed

Contrast
Usethecontrastparametertomakeminoradjustmentsoftheblacknessintheprintout,forexampletoadapttheprinterto variationsinqualitybetweendifferentbatchesofthesamemedia. 11optionsaredisplayedinanendlessloopfrom-10%to+10%. Defaultvalueis0%. Thecontrastisresettothedefault(±0) whenveranewpapertypeisspeci fied,regardlesswhichmethod hasbeenused.

Testfeed
Thesensitivityofthelabelstopsensor(LSS)mayneedtobeadjustedwh

enswitchingfromonetypeofmediatoanother. Thisisespeciallythecasewhenusingadhesivelabels sincethe transparencyoftheliner(backingpaper)mayvary.Ad justing theLSSentailsfeedingoutanumberofblankcopiesunt il the fi rmwarehasdecidedthepropersettingfortheLSS.At thesametime,thefrontedgesofthelabels,tickets,e tc.are detectedsothefeedcontrolcanpositionthemediaacc ording totheFeedadjustparameter(sameastheIntermecFing erprint statementTESTFEED).Thecomparatorandampli fi ervaluesof theLSSaredisplayed(read-only information).

Head Resistance

Theprintheadresistanceismeasuredautomaticallya tstartup (read-only information).

Testprint

Testlabel#1to#4checktheprintoutqualityandfacil itate adjustmentoftheprintheadpressure,seeChapter12, “Adjust- ments.” Testlabel#5liststheprinter’ scurrentsetup(extralabels maybeprint edifthepri nteris fi ttedanopti onalinterf ace board).Tes tlabel#6is onlyprinte difthepri nterhasanop tional EasyLAN100 iinterface board.Test labels#1to #5areillus trated onthenextp age.Ifthep rinterrefu sestoprint atestlabel, press the<F3>key to fi ndoutwhati swrong,for examplepri nthead liftedorou t-ofpaper.

Setup Parameters, cont.

Print Defines, cont.

1109 ohms/12 dots

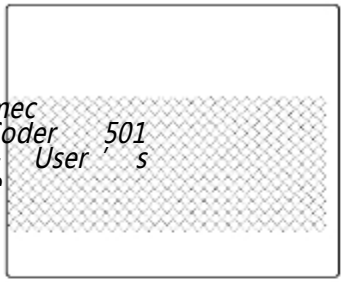
Test Label #1

CODE39

1 23 45 67 890 12 8

Test Label #3

Test Label #5



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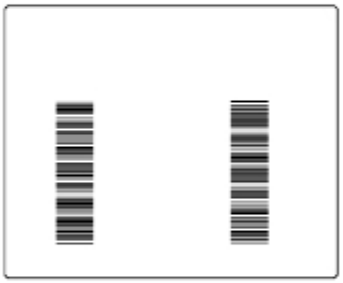


Setup Parameters, cont.

Print Defines, cont.

Print Speed
Theprintspeedisvariablebetween100and300mm/sec. Generally, thelowerthespeed, thebetterthe printoutquality. Thisisespeciallytrue whenprintingbarcodes withthebars runningacrossthemediapath(“ladderstyle”), whenprinting ondemandingfacematerials, andwhenprintingatlowambient temperatures. Referto thetablesunder “Media” earlierinthis chapterformaximumprintspeedvalues. Thedefaultsettingis 150mm/sec. (≈ 6inches/se

c.).

Chapter 7

Setup Mode

Entering Setup Mode at Installation

ThemethodofenteringtheSetupModedependsonwhichstartup
fi *lesarestoredintheprinter* *’*
smemory,asubjectthatwasmore
thoroughlydiscussedinChapter3, “StartingUp.”

EasyCoder 501 XP with Intermec Shell

- Switchonthepower.
- Whenthedisplayshowsthemessage *“Enter=Shell;xsec...”*, press<Enter>.
- Press<Setup>(thisfacilitycanbeusedanywherewithin IntermecShell).
- Setuptheprinterasdescribedinthischapter.
- ReturntoIntermecShellbypressing<Setup>.

EasyCoder 501 XP with a custom-made application program

- Normally,thereisnoneedtoentertheSetupModefor custom-madeapplicationprograms.Necessaryprovisionsfor changingthesetup,manuallyorautomatically,shouldbe providedbytheprogram.

Intermec EasyCoder 501 XP – User's Guide

Navigating in Setup Mode

Whilegoingthroughthesetupprocedure,youareguidedbyt
exts
intheprinter
sdisplay.Youcannavigatebetweensetupmenus,
acknowledgedisplayedvalues,selectortypenewvalues,e
tc.by
usingthekeysontheprinter’skeyboard.

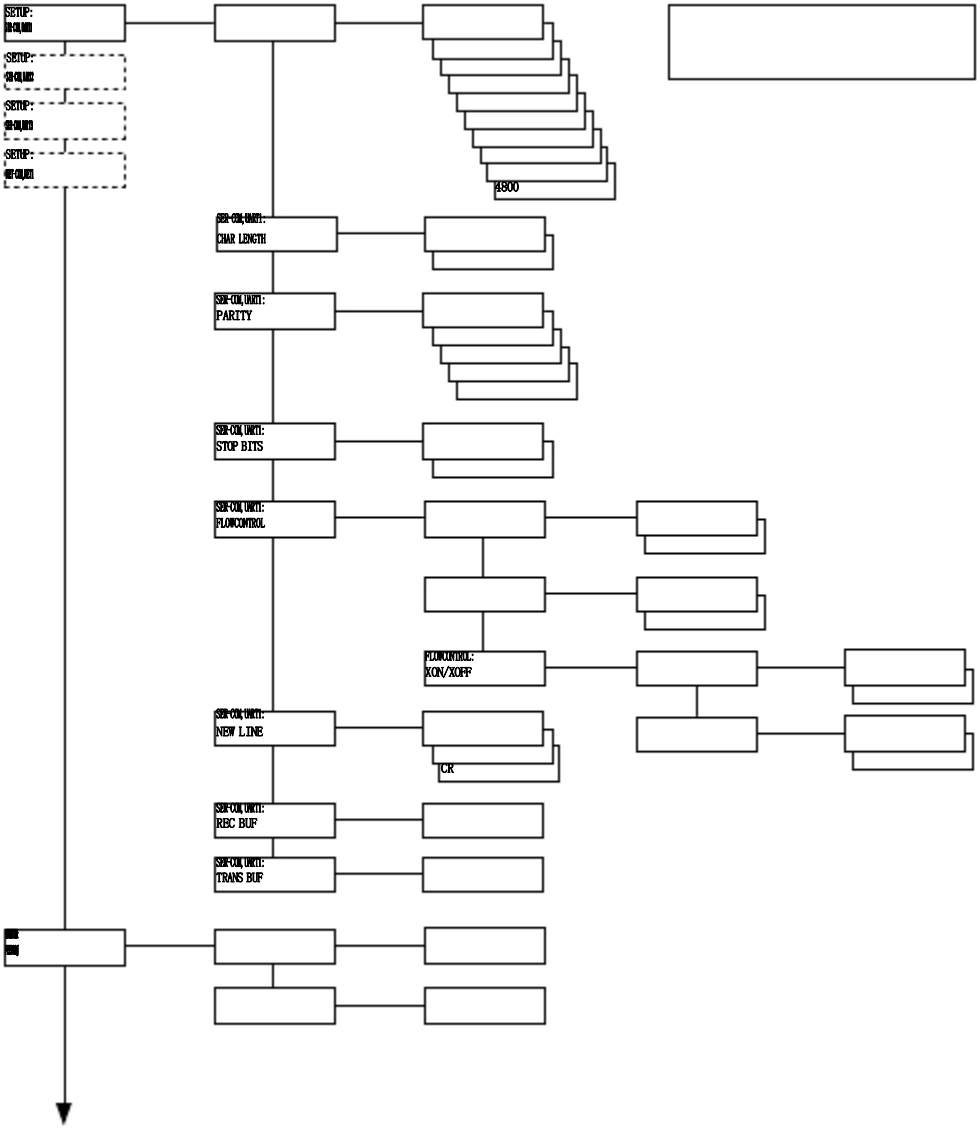
Note!
AnexternalkeyboardcannotbeusedinsidetheSetupMode.

1
thischapter.

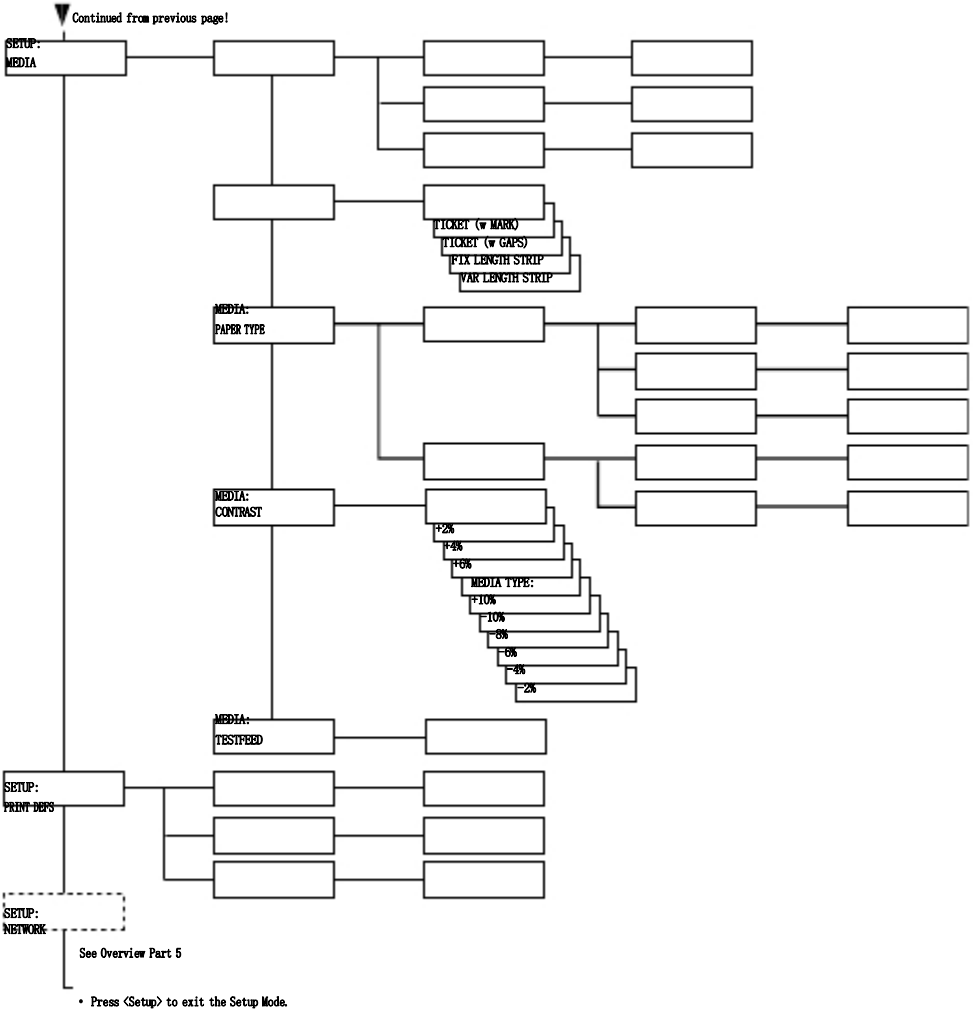
Moveonemenutotheleftonth	
	Moveonemenutotherightonthesame
	Displayerrormessageattestlabelprint-
	Moveuponelevelorscrollbackinastack
	Movedownonelevelorscrollforwardin
—	Enternumericvalues.
	Specifynegativevalues(leadi
	Clearerroneouslyenteredvalu
	Acknowledgeandmovetonextmenu. PerformtestfeedsintheTestfe
	ExittheSetupMode.

/. “ *Left* ”, “ *right* ”, “ *up* ”, *and* “ *down*

Setup Mode Overview, Part 1
(Intermec Fingerprint v7.61)

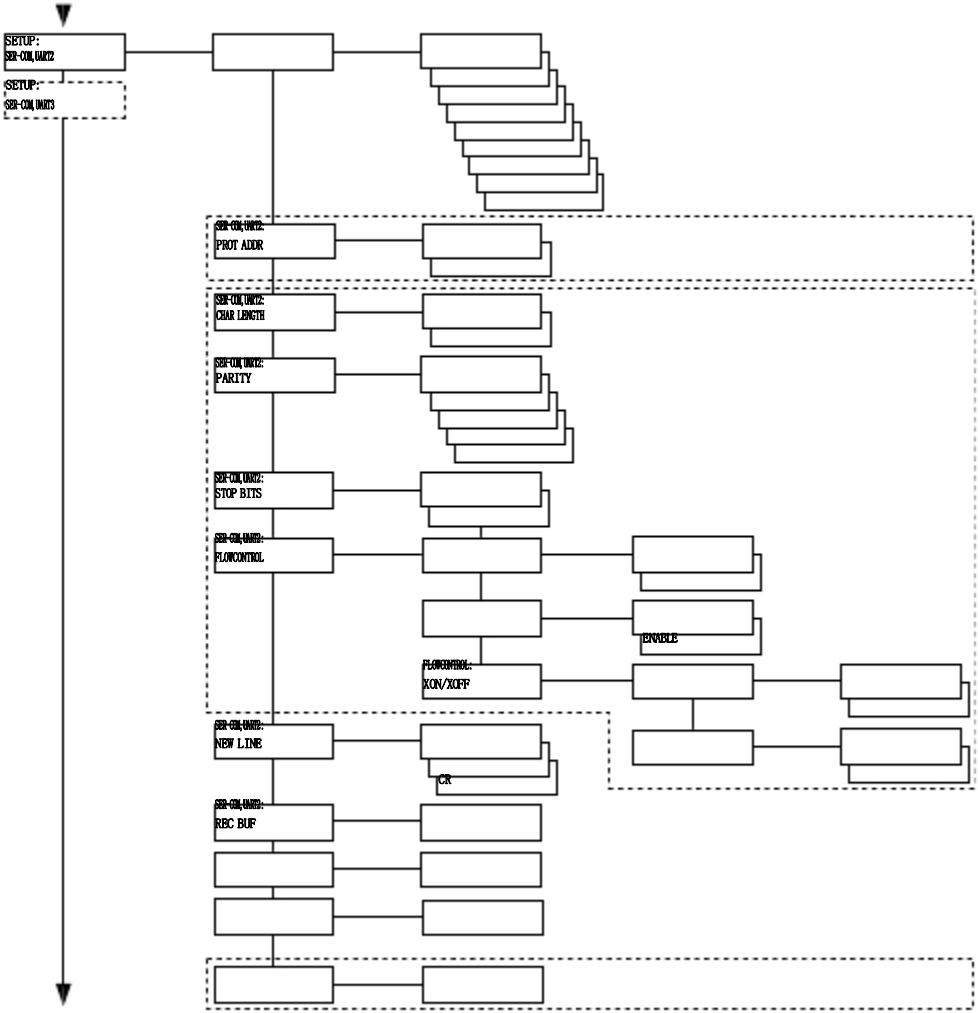


Setup Mode Overview, Part 2
(Intermec Fingerprint v7.61)



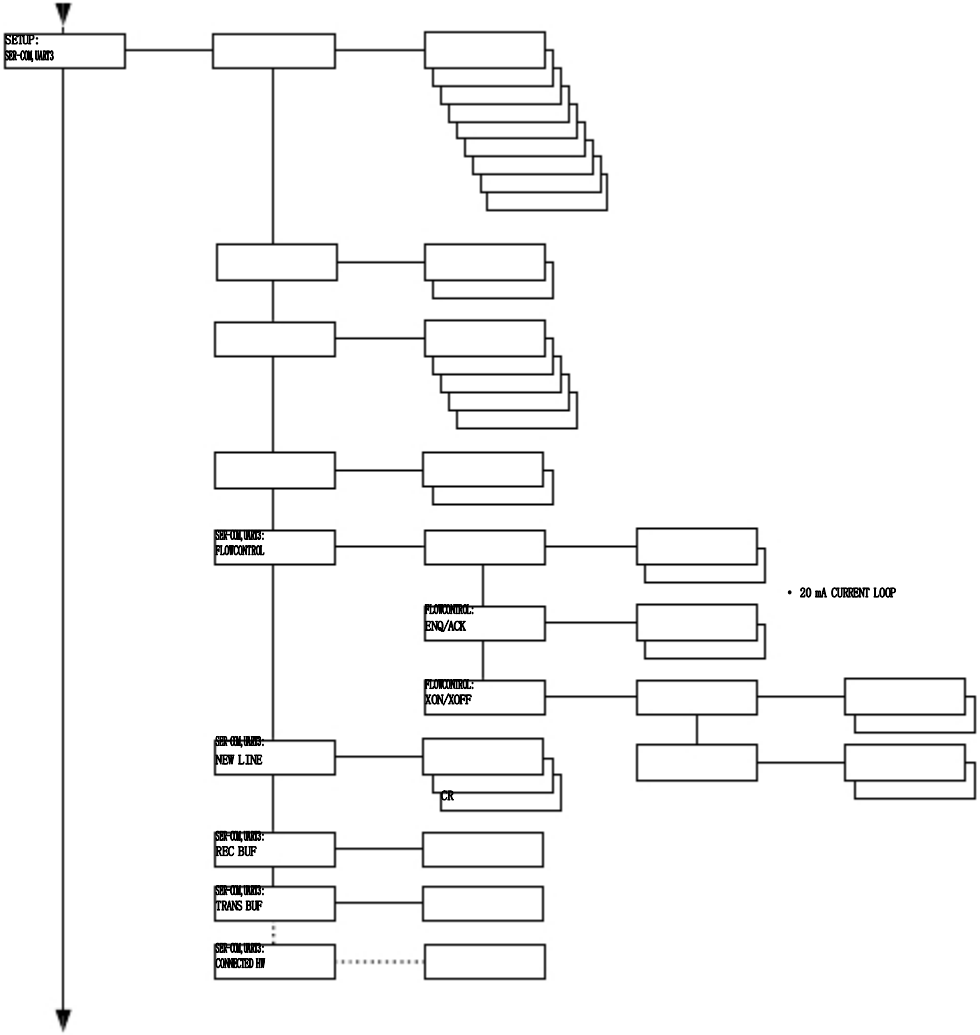
Setup Mode Overview, Part 3
(Intermec Fingerprint v7.61)

If an optional Double Serial or Industrial Interface Board is installed in the printer, additional menus will be displayed (in case of Double Serial Interface Board, also see Overview Part 4):



Setup Mode Overview, Part 4
(Intermec Fingerprint v7.61)

If an optional Double Serial Interface Board is installed in the printer, additional menus will be displayed:



Setup Mode Overview, Part 5
(Intermec Fingerprint v7.61)

If an optional an EasyLAN 100i interface board is installed in the printer, additional menus will be displayed.

SETUP:
SW-CH, VOID

SETUP:
WEB-CH, VOID

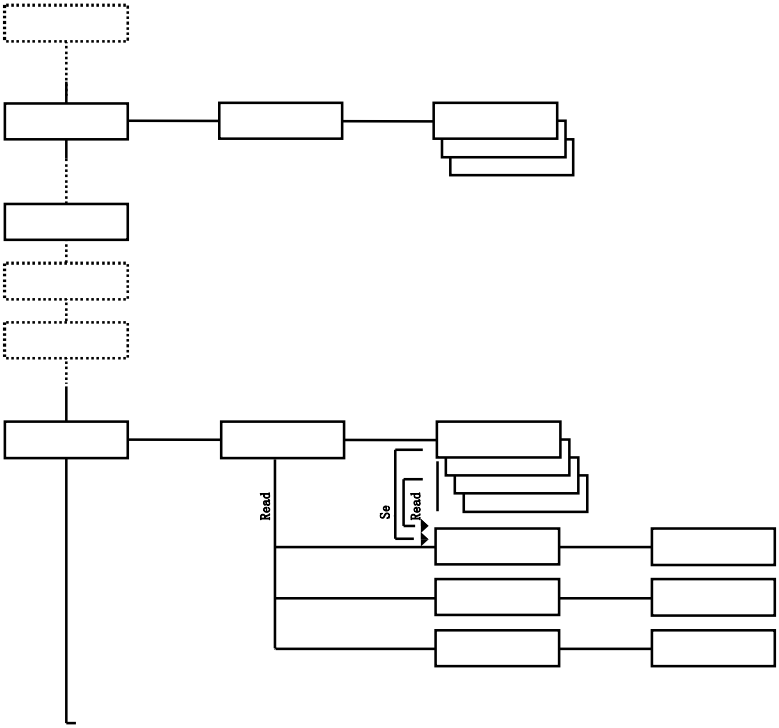
SETUP:
FEEDADJ

SETUP:
MEDIA

SETUP:
PRINTDEFS

SETUP:
NETWORK

- Press <Setup> to exit the Setup Mode.


Read
Se
Read

Intermec Shell Startup Program

Introduction

- IntermecLabelShop
- IntermecWindowsDriver
- IntermecFingerprint

- IntermecDirectProtocol
- LINE_AXP.PRG
- Otherapplicationprogramsintheprinter’ smemory..
  Aprerequisiteisthattheprogramisprovidedwiththeex
  tension
  “.PRG”.However,someoriginalIntermecutilityprogr
  amsare
  excludedaslongastheyremainstoredin"rom:":
  -ERRHAND.PRG
  -FILELIST.PRG
  -LBLSHTXT.PRG
  -MKAUTO.PRG
  -SHELLXP.PRG
  -WINXP.PRG

Other Facilities

- SetupMode
- PrintSetup
- Testfeed
- TestLabel
- Defaultsetup
- UpdatePCcard

- Reboot

IntermecShellisfactory-installedintheprinter's permanent memory(device"rom:").Ifyouinsertamemorycardwithan other startup file beforeyouswitchontheprinter,orifthereisastartup file storedintheprinter's permanentmemory(device"c:"),this startup file willbeusedinsteadofIntermecShell(seeChapter3, "StartupFiles").

Starting with Intermec Shell

Afewsecondsafteryouhaveswitchedonthepowertotheprinterand theinitializationiscompleted,thecountdownmenuofthe Intermec Shellprogramwillbedisplayed:

```
ENTER=SHELL
5 sec. v.4.8
```

Nowyouhave5secondstoenterIntermecShellbypressing<Enter>.

Thelowerlinetellsyouhowmuchtimeyouhaveleft.Shouldthe timerunoutbeforeyouhavetakenanyactiontoenterIntermec Shell,thelastselectedapplicationinIntermecShellwillbeopened.If youusethesameapplicationallthetime,youwillonlyneed toswitch onthepower,oncetheapplicationhasbeenselected.

Ifnootherapplicationhasyetbeenselected,thecurrentversion ofIntermecFingerprintwillbeopenedwiththestandardRS-232 port"uart1:"selectedasstdI/Ochannel(seeIntermecFingerprint manuals).Whenthecountdowniscompleted,youwillseetheselines inthedisplay:

```
FINGERPRINT
7.61
```

Ifyouwanttoselectanotherapplication,justcyclethepowerand enterIntermecShellbeforethecountdowniscompleted.

WhenyouentertheIntermecShellfromthecountdownmenus, the SelectApplicationmenuwillbedisplayed:

```
SHELL
SEL. APPLICATION
```

Inthismenu,youcanchoosebetweentwooptions:

- Press <Enter> to go to menus where you can select an application program.
- Press <F5> to go to the Facilities part of Intermec Shell.

Starting with Intermec Shell, cont.

Select Application

1

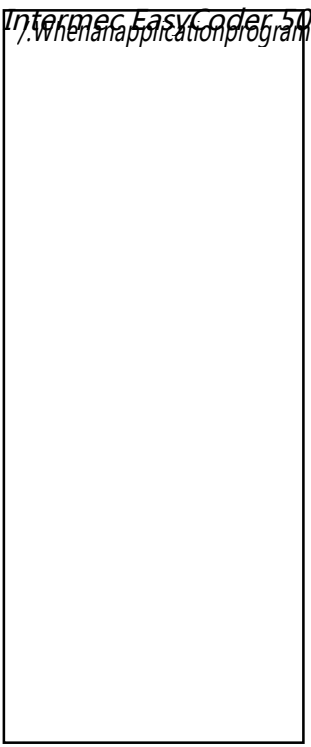
is started, it may automatically change the communication setup. For example, Intermec LabelShop changes the setup to the following values:

Baud rate: 57600
Char. length: 8
Parity: None
Stopbits: 1
RTS/CTS: Enable
ENQ/ACK: Disable
XON/XOFF: Disable
New line: CR/LF
Receive buffer: 600
Transmit buffer: 600

If another application is selected later, this communication setup will remain valid, unless the new application includes instructions that automatically change the setup. The setup could also be changed manually in the Setup Mode.

runtheIntermecInterDriver.Thisoptionrequiresthatyou alsoselectastandardIN/OUTchannel,whichisthechannel youwanttouseforcommunicationbetweentheprinterand thecomputer.Normally,youselect"uart1:".Refertothe IntermecFingerprintmanuals.

- **DirectProtocol**isaneasy-to-useprinterprotocolfordown-loadinglabelformatsandvariableinputdatatoaprinterfrom ahostcomputer.Thisoptionrequiresthatyoualsoselecta standardIN/OUTchannel,thatistheserialchannelyouwant touseforcommunicationbetweentheprinterandthehost. Normally,youselect"uart1:".Refertothe*IntermecDirect Protocolv7.xx*manual.
- **LINE-ALY.PRG**(LineAnalyzer)isaFingerprintprogram



Starting with Intermec Shell, cont.

Select Other Facilities

- **Setup**allowsyoutoentertheSetupModewhereyoucansetuptheprinterbymeansofitsbuilt-inkeyboard,seeChapter 7, “SetupMode.”
- **PrintSetup**allowsyoutoproduceaprintoutoftheprinter’s currentsetupvalues(testlabel#5).
- **Testfeed**allowsyoutofeedoutanumberoflabel,ticket,tag,orportionsofcontinuousstockwhiletheprinterauto-adjustsitsmediafeedandlabelstop/blackmarksensor.Itis recommendedtoperformaTestfeedeachtimeyouloadarol l oflabelsfromanewbatchoradifferentbrand.
- **TestLabel**allowsyoutoprintaseriesoffourtestlabels(test labels#1to#4)inordertotestheprintoutqualityandprintheadalignment.Thelabelsarepresentedinaninfinite loop,soyoucanprinttheseriesoverandoveragain.Press <**Enter**>foreachnewlabel.
- **DefaultSetup**allowsyoutoresetallsetupparameterstotheirdefaultvalues,aslistedinChapter6, “SettingUpthe Printer.”
- **SoftwareUpdate**isusedfortwopurposes:
  - ***UpdatePCcard***allowstheprintertobeusedasaFlash PCcardprogrammingdevice.UsingtheZmodemcommunicationtool,filescanbedownloadedfromaPCtoaFlashPCcardinsertedinthememorycardslotintheprinter’srearplate.
    Caution!IftheFlashPCcardcontainsanearlierfirmware versionthantheoneintheprinter,theprinter’sfi

rmwarewill
bedowngradedwithoutwarning.
-***Updatefirmware***isusedtoupgradetheprinter'sfirmware
fromanewfirmwareversionstoredasafileinaPC.

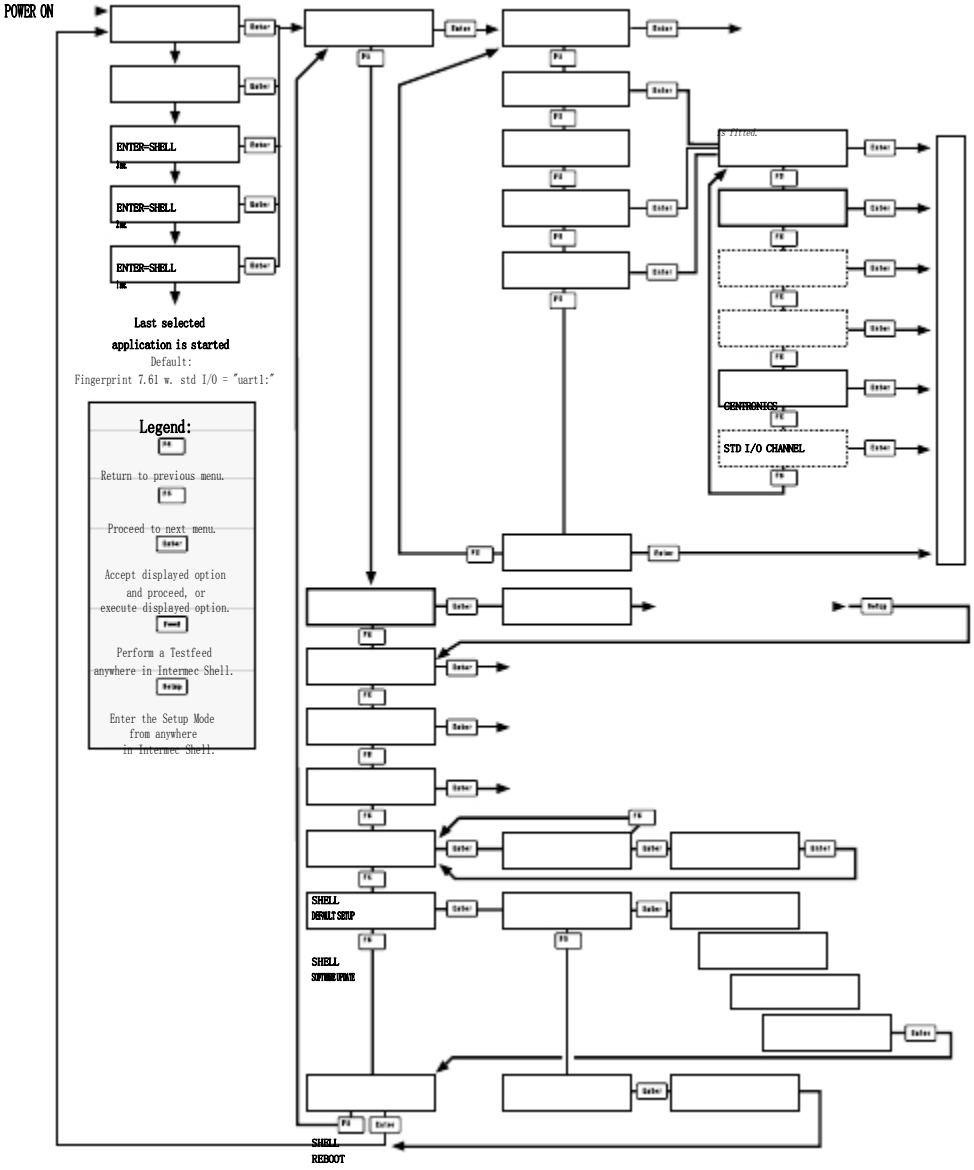
•

Reboothasthesameeffectascyclingthepowertotheprinte
r.
ToexitIntermecShellwithouthavingselectedanyappli
ca-
tion,selectReboot.Thenwaitforthe5secondscountdow
nto
finish,andthelastselectedapplicationwillbeopened.

1
byIntermeccanbeused.

/.OnlyFlashPCcardsapproved

Intermec Shell v4.8 Diagram



Line Analyzer

efollowingmenuisdisplayed:

Line Analyzer
Sel.port(1-5) 1

Enterthedesiredcommunicationportusingthenumerickeyson
theprinter’ skeyboard:
1="uart1:"
2="uart2:"
3="uart3:"
4="centronics:"
5="net1:"

Iftheprinterisnotfittedwiththespecifiedport,anerrormessage
appearsinthedisplayandyoucanselectanotherport:

Line Analyzer
Error:56

youhavesentasstringtotheprinter,youcaneither iton
memory("temp:").

Returning the string

Selecttheportonwhichyouwanttoreturnthestringas describedonthepreviouspage.Thensimultaneouslypress <Shift>and<F5>ontheprinter' sfrontpanel.

Saving the string

Simultaneouslypress<Shift>and<F4>ontheprinter' s frontpanel.Thedatawillbesavedondevice"temp:"as "linedump.txt".Anyexistingfilewiththesamenamewillbe overwritten.Max.filesizeis64K.

Toreachthe fi

le,breaktheprogramusing<Shift>and<Pause>. ThensendtheinstructionFILES "tmp:"tocheckthatthe fi lehasbeenstoredin"temp:"withthe fi lename"linedump.txt". Thefilecanbesenttothehostorbecopiedto"c:"forlater analyzing.

Line Analyzer, cont.

Onceanycommunicationchannelorsaveitintheprinter’ sreturn

Chapter 9

Options

Introduction

tothebasicprinter,theEasyCoder501XPcanbeadaptedfor avarietyofapplications.Mostoptionscaneasilybeinsta lled bytheoperator,howeverafewshouldbeinstalledbyanauth o- rizedservicetechnicianorareonlyavailableasfactory- installed options.

Belowisadescriptionofsomeofthemanyoptionsavailable for EasyCoder501XP.

Fan Fold Guides

3-inch Adapter (included)

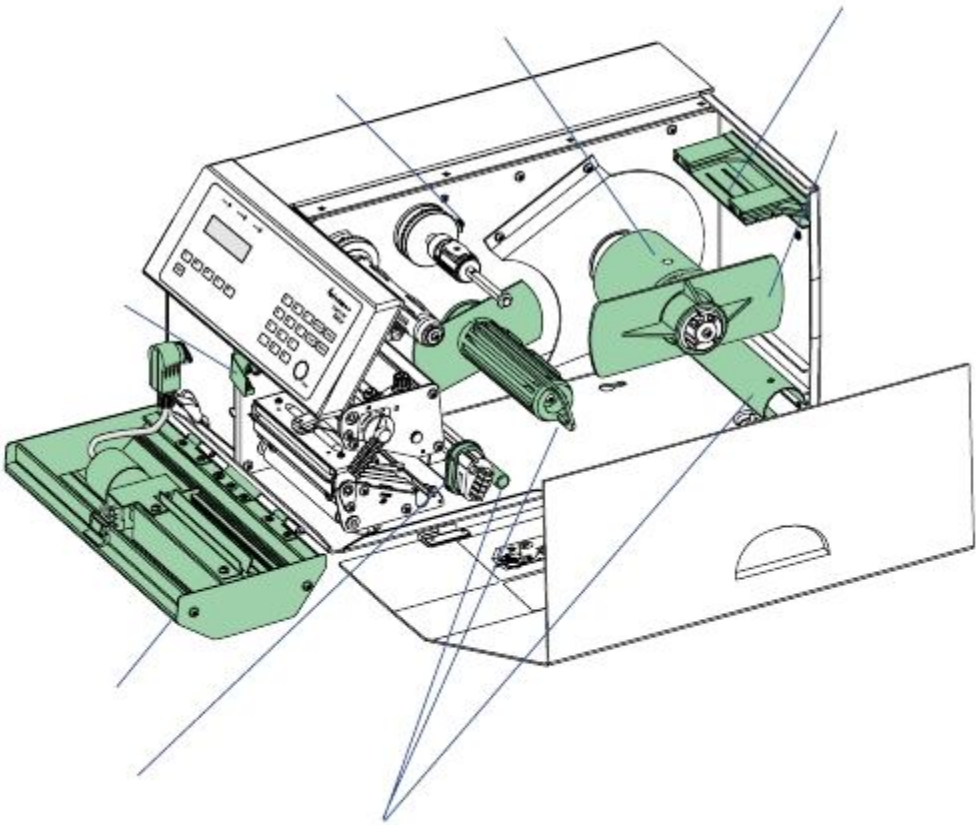
Ribbon Low Sensor

Media Roll Retainer

Label Taken Sensor

Paper Cutter

Edge Guide



Liner/Batch Takeup Kit

Paper Cutter

Warnings!

The cutting edge will rotate when the power is switched on and when the printer is re-booted. Always keep the cutter in closed position during operation.

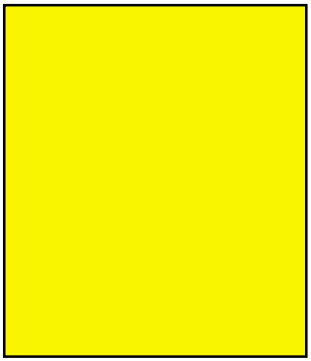
Switch off the power or disconnect the cutter before cleaning. Keep your fingers away from cutting parts!

It **must not** cut through any adhesive, which would stick to the cutting parts and rapidly render the cutter inoperable - possibly also causing damage to the electric motor. Maximum thickness for normal paper-based materials is 175µm (≈175 grammes/m²).

The paper cutter increases the printer's total weight by approx. 1.0kgs (2.2 pounds) and its length by 28mm (1.1 inches.)

The paper cutter can be tilted forward in order to facilitate cleaning and media load. For media load instructions, see section "Cut-Off" in Chapter 4, "Media Load."

The cutter is activated by CUT or CUTON instructions, see the *Intermec Fingerprint v7.xx* manuals. The rotating edge will cut through the media approx. 37mm (1.5 inches) in front of the



Fan Fold Guides

Media Roll Retainer

Edge Guide

3-inch Adapter

Label Taken Sensor

Illustrationsofhowtoloadthemediausingtheadaptercanbe foundinChapter4, “MediaLoad.”

TheLabelTakenSensor(LTS)isaphotoelectricsensorfittedto thecentersectioninsidethefrontdoor.Itallowstheprinter’s firmwaretodetectifthelatestprintedlabel,ticket,tagetc.has beenremovedbeforeprintinganothercopy.

Thelabeltakensensorisusuallyfactory-fitted,butisalsoavail-ableasakitforinstallationbyanauthorizedservicetechnician.It cannotbefittedincombinationwithapapercutter.

TheLTScanbeenabledordisabledbymeansoftheinstruc-tionsLTS&ONandLTS&OFFrespectivelyinIntermec FingerprintandtheIntermecDirectProtocol.

Ribbon Low Sensor

Interface Boards

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Troubleshooting

Symptom	Possible Cause	Remedy	Refer to
Overall weak printout	Wrong Paper Type parameter Contrast value too low Printhead pressure too low Worn printhead Wrong printhead voltage	Change parameter Change parameter Adjust Replace printhead Replace CPU board	Chapter 6 Chapter 6 Chapter 12 Chapter 11 ¤ Call
Printout weaker on one side	Uneven printhead pressure	Adjust arm alignment	Chapter 12
Weak spots	Foreign particles on media Media/ribbon don't match Poor media or ribbon quality Worn printhead Worn platen roller	Clean or replace Change to matching media Use Intermec media/ribbon Replace printhead Check/replace	Chapters 4 & 5 Chapter 6 Appendix 2 Chapter 11
Overall dark printout	Wrong Paper Type parameter Contrast value too high Printhead pressure too high Wrong printhead voltage	Change parameter Change parameter Adjust Replace CPU board	Chapter 6 Chapter 6 Chapter 12 ¤ Call
Excessive bleeding	Wrong Paper Type Contrast value too high Printhead pressure too high Faulty energy control	Change parameter Change parameter Adjust Replace CPU board	Chapter 6 Chapter 6 Chapter 12 ¤ Call
Dark lines along media path	Foreign objects on printhead	Clean printhead	Chapter 11
White lines along media path	Printhead dirty Missing dots on printhead	Clean printhead Replace printhead	Chapter 11 Chapter 11
Large part of dot line missing	Wrong X-start or Width parameter Failing printhead Failing strobe signal	Change parameter Replace printhead Check CPU-board	Chapter 6 Chapter 11 ¤ Call
Printout missing along inner edge	Bad media alignment X-start parameter value too low	Adjust Increase	Chapter 4 Chapter 6
Transfer ribbon breaks	Ribbon not fitted correctly Wrong paper type parameter (too much energy) Ribbon supply hub stuck Bad energy control	Reload ribbon Change parameter, then clean printhead Adjust Check CPU board	Chapter 5 Chapter 6 Chapter 12 ¤ Call Service
Transfer ribbon wrinkles	Faulty ribbon break shaft adjustment Incorrect edge guide adjustment Too strong printhead pressure	Adjust Adjust Adjust	Chapter 12 Chapter 4 Chapter 12
No thermal transfer printout	Ink-coated side does not face media	Reload ribbon	Chapter 5
White parts at transfer printing	Transfer ribbon wrinkled	Adjust	See below
Transfer ribbon wrinkles	Incorrect edge guide adjustment Ribbon obstructed by printhead cable Too strong printhead pressure Ribbon supply hub not centered Faulty ribbon assist roller adjustment	Adjust Clear Adjust Adjust Adjust	Chapter 4 n.a. Chapter 12 Chapter 5 ¤ Call

Maintenance

Printhead Cleaning

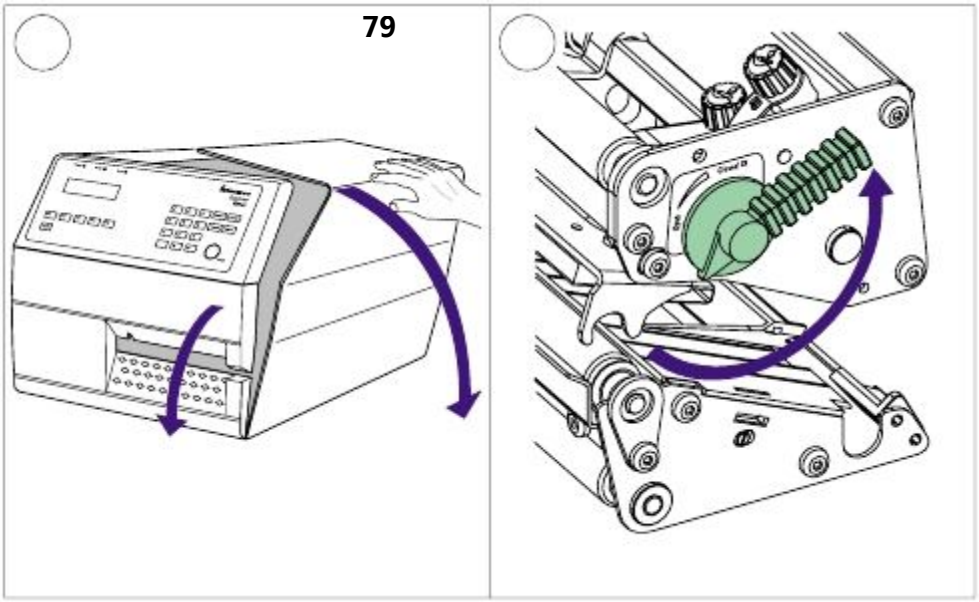
Cleaningtheprintheadonaregularbasisisimportantfor the lifeoftheprintheadandfortheprintoutquality.Youshou ld cleantheprintheadeachtimeyoureplacethemedia.Thisse ction describeshowtocleantheprintheadusingcleaningcards. If additionalcleaningisrequired,forexampleremovingadh esive residuefromtheplatenrollerortearbar,useacottonswab moistenedwithisopropylalcohol.

Warning!

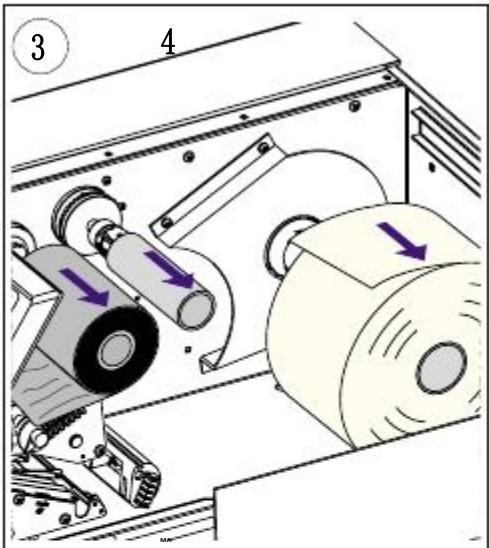
Isopropylalcohol[$(CH_3)_2CHOH$;CAS67-63-0]isahighly flam- mable,moderatelytoxic,andmildlyirritatingsubstanc e.

1

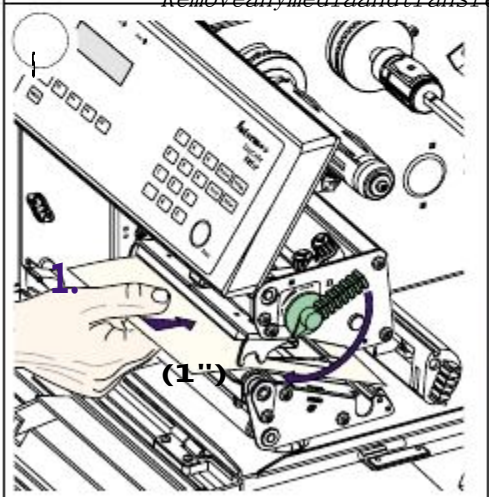
Turntheprintheadliftleverto“Open”position.

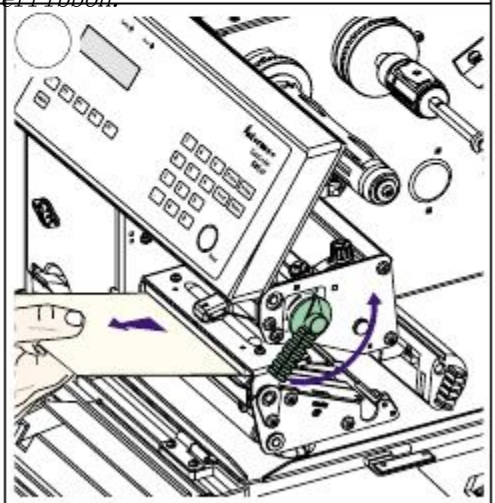


Printhead Cleaning, cont.



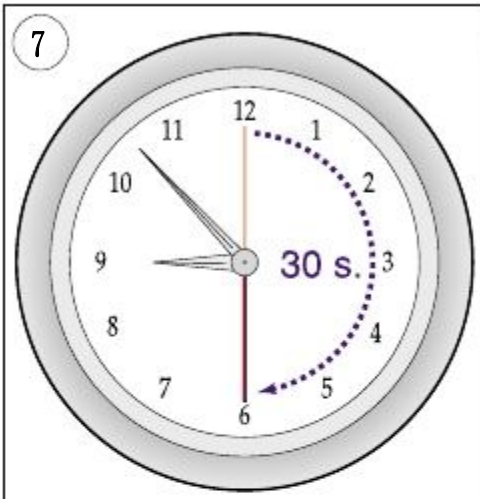
Removeanymediaandtransferribbon.



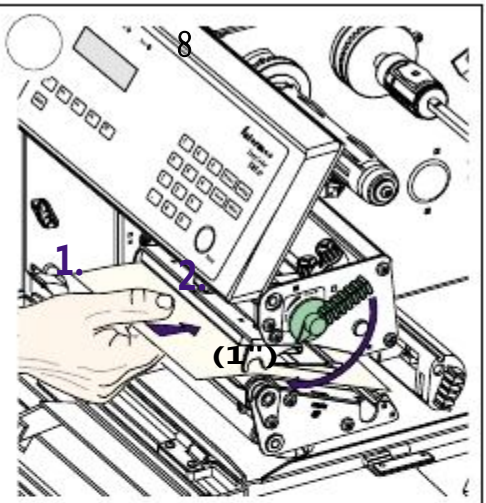


Insertmostofthecleaningcardundertheprinthead Pulloutthecleaningcard(1)andraisetheprinthead (1). Closetheprinthead(2).

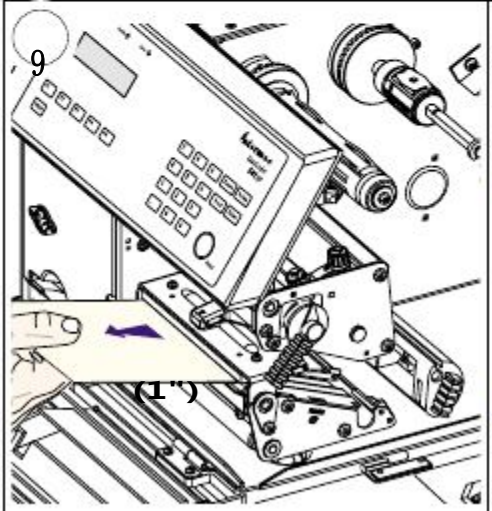
Printhead Cleaning, cont.



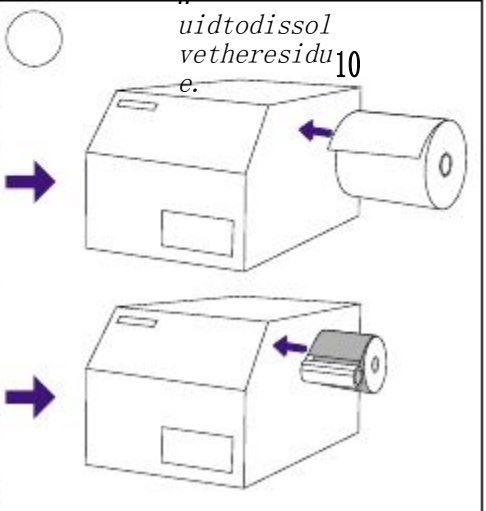
Waitforapprox.30secondstoallowthecleaning



Insertmostofthecleaningcardundertheprintheadfluidtodissolvetheresidue.



Pulloutthecleaningcard.Ifnecessary,repeattheprocesswithafreshcleaningcard.



Allowthecleanedpartstodrybeforeloadinganymedia(andribbon).

External Cleaning

1 2

Wipeexternalsurfaceswithasoftclothslightly moistenedwithwateroramilddetergent.

Alwaysremovethepowercordbeforecleaning!

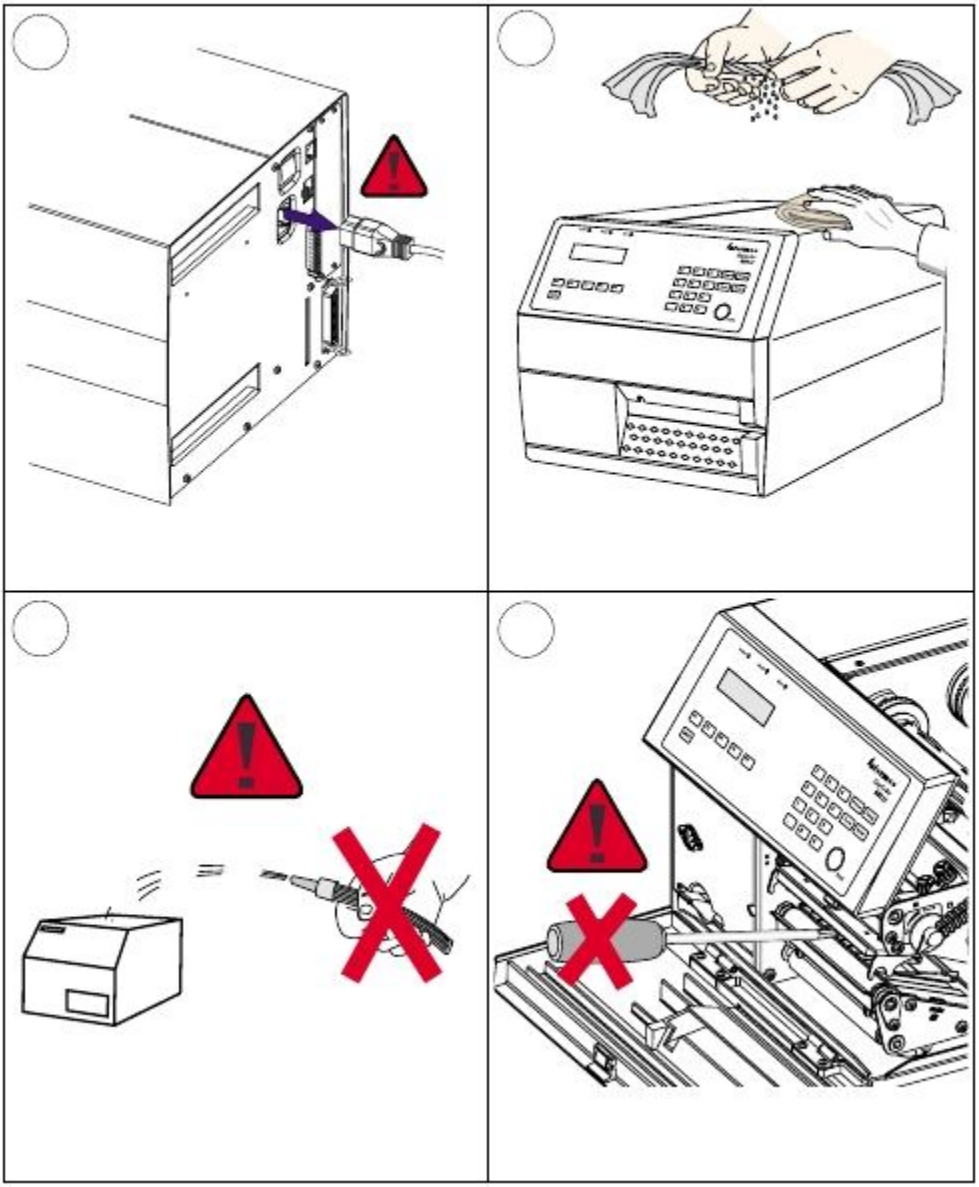
4

3

Neverspraytheprinter.ProtectitfromwaterwhenNeveruseanysharptoolsforremovingstucklabels.

cleaningthepremi ses.

Theprintheadandrollersaredelicate.



Cleaning the Media Guides

The label stop sensor, which controls the media feed, is partially enclosed by two black plastic guides. The guides are provided with transparent windows, through which the light between the two parts of the label stop sensor is transmitted. These windows must be kept clean from dust, stuck labels, and adhesive residue.

If the printer starts to feed out labels in an unexpected way, remove these two guides as described below and check for any-thing that may block the beam of flight. If necessary, clean them using a cleaning card or a soft cloth soaked with isopropyl alcohol. Do not use any other type of chemicals. Be careful not to scratch the windows.

Warning!

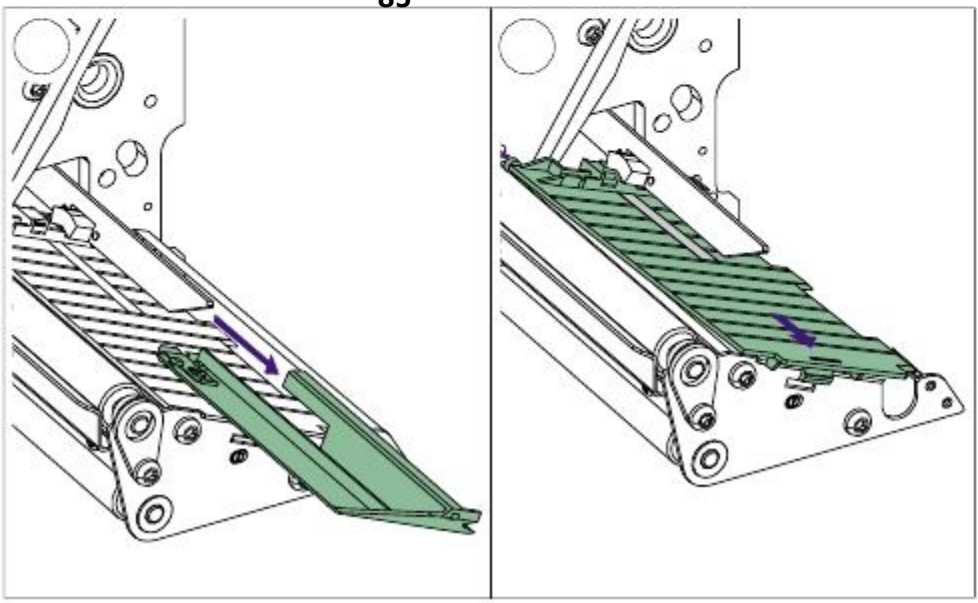
Isopropyl alcohol [$(CH_3)_2CHOH$; CAS 67-63-0] is a highly flam-mable, moderately toxic, and mildly irritating substance.

1

Pull the upper guide straight out.

2

Pressthesnap-lock,lifttheouterendofthelower guideandpullitout.Aftercleaning,reassemble inreverseorder.



Printhead Replacement

Theprintheadissubjecttowearbothfromthethermaltransfer ribbonorthedirectthermalmediaandfromtherapidheating andcoolingprocessduringprinting.Thus,theprintheadwill requireperiodicreplacement.

Timebetweenprintheadreplacementsdependsontheprint images,thetypeofdirectthermalmediaorthermaltransfer ribboninuse,theamountofenergytotheprinthead,theprint speed,theambienttemperature,andseveralotherfactors.

Caution!

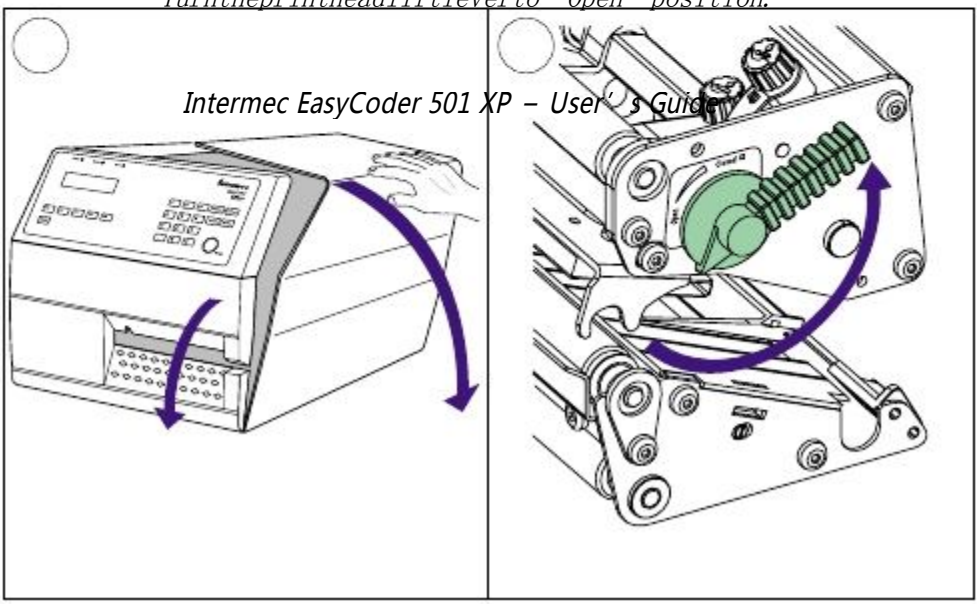
Whilereplacingtheprinthead,thepowershouldbeoff.

1

Openthefrontandr
ight-handdoors.

2

Turntheprintheadliftleverto “Open” position.



Printhead Replacement, cont.

3

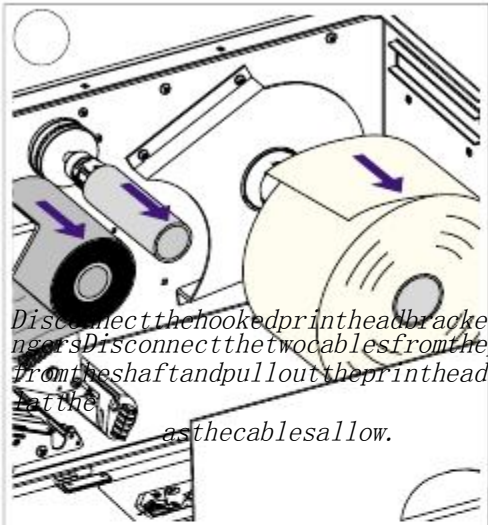
4

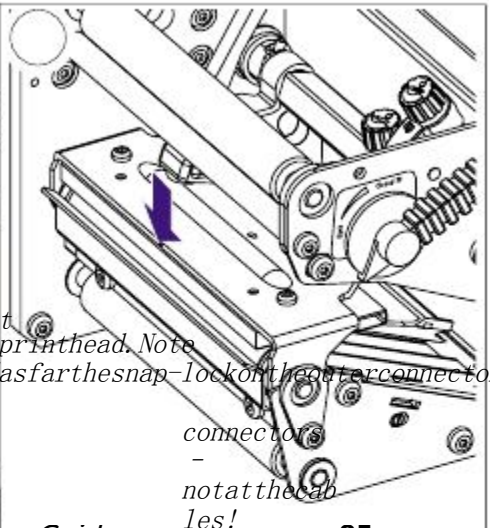
hemagnet

Removetheme
diaandtrans
ferribbon.

5

6

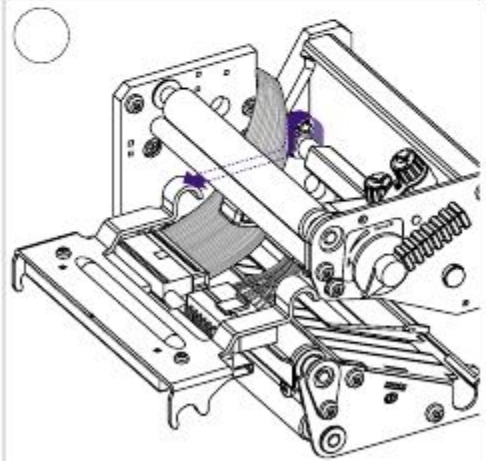


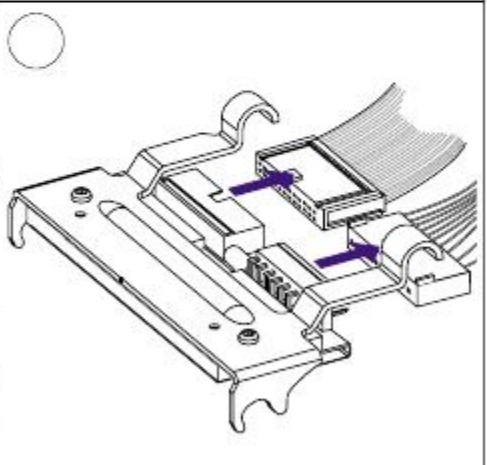


Disconnectthehookedprintheadbracket fi
ngersDisconnectthetwocablesfromtheprinthead.Note
fromtheshaftandpulloutheprintheadasfarthesnap-lockontheouterconnector.Pul
latthe

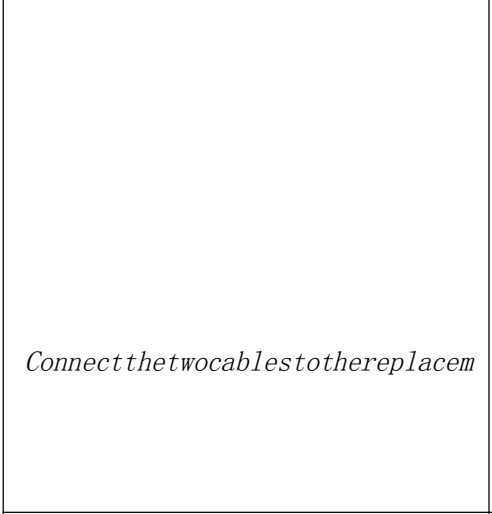
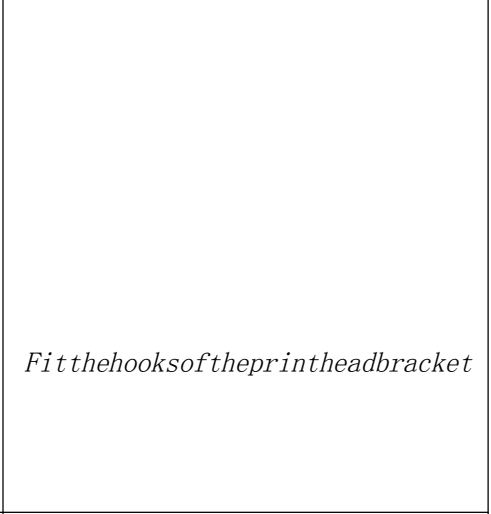
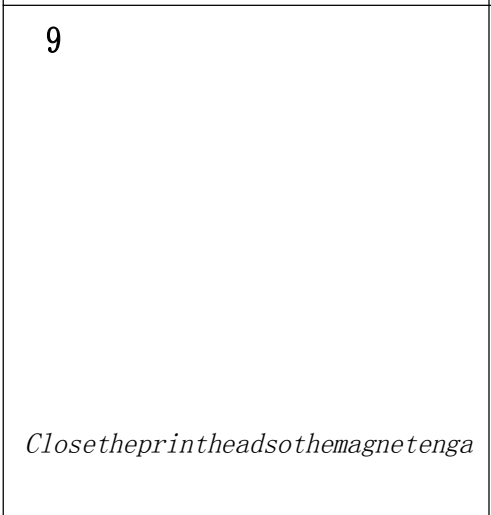
asthecablesallow.

connectors
-
notatthecab
les!





Printhead Replacement, cont.

7  *Connectthetwocablestothereplacem*	8  *Fitthehooksoftheprintheadbracket*
9  *Closetheprintheadsothemagnetenga*	10 *Loadanewsupplyofmediaandribbon,a*

Adjustments
Narrow Media

adjustthepressurearmsoitbecomescenteredonthemedia. Thereby,anevenpressureacrossthemediaisobtained.

Apoorlyadjustedpressurearmmaybedetectedbyaweaker printoutoneithersideofthemediapath.

Toadjustthepressurearm,proceedasfollows:

- Removetheribbon,ifany.
- Loosentheknobthatholdsthepressurearm.Movethearm inwardsoroutwardsuntilthearrowonthetipofthearm becomescenteredwiththemediastock. *Whilemovingthearm,pushatthepartwheretheknobis situated,notatthetip.Ifthearmishardtomove,liftth e printheadandpulltheprintheadbracketfreefromthema gnet inthearm.*
-

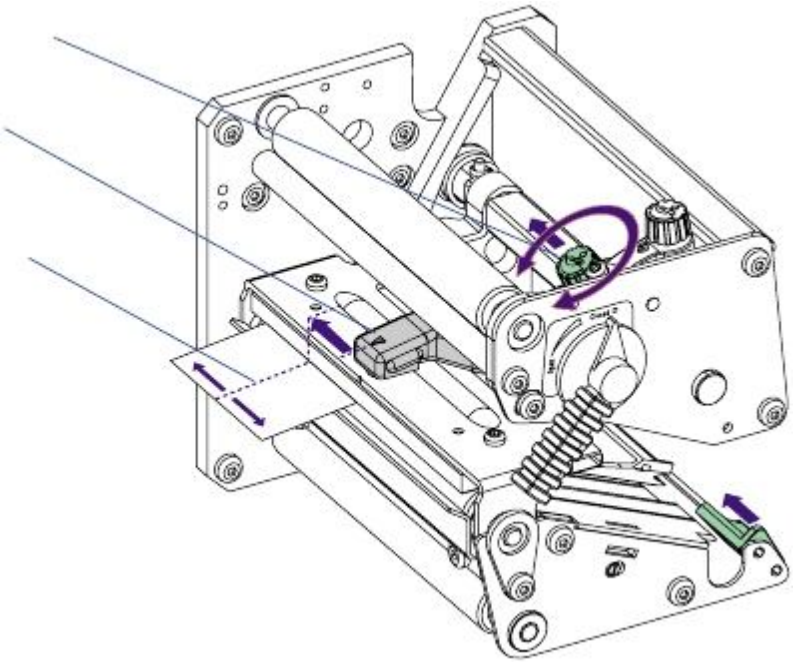
Afterhavingcenteredthearm,lockitbytighteningthekno b.

- Reloadtheribbon,ifany.

Knob

Pressure Arm

Center of Media



Printhead Pressure

Thepressureofthethermalprintheadagainsttheribbonor direct thermalmediaisfactoryadjusted.However,theuseofthicker orthinnermediathannormalcouldrequiretheprintheadpressure tobereadjusted.

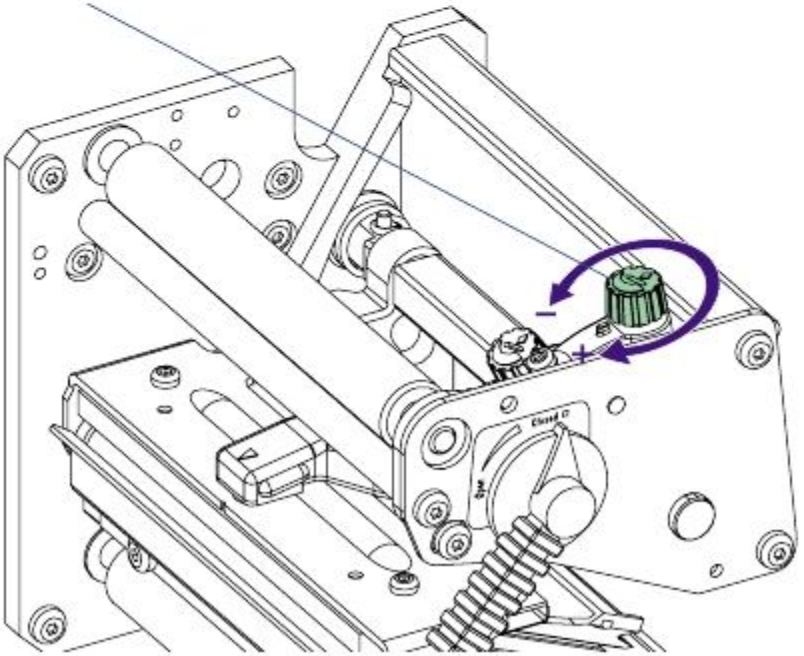
Turntheadjustmentknobclockwiseforincreasedpressure, or counterclockwiseforlesspressure.Printafewlabels,preferably testlabels(seeChapter6, “SettingUpthePrinter”),andcheck theprintout.Increasedpressuregenerallygivesadarker printout andviceversa.Repeatuntilthedesiredresultisobtained.

To find thebasicsetting,turntheknobcounterclockwiseuntil thereisnopressureleft.Testwithapieceofmediaunderthe printhead.Youshouldbeabletopullitoutwithoutmorethan justalittleresistance.Thenturntheknobthreetofourfull turns clockwise.Fine-adjustusingthetrial-and-errormethod.

Caution!

Donotuseahigherprintheadpressurethannecessary,because it mayincreasethewearoftheprintheadandshortenitslife.

Knob



Label Stop Sensor

orblackmarksincontinuousstock,dependingontheprinte
r’s
setupinregardofmediatype(seeChapter6,
“SettingUpthe
Printer”).TheLSSshouldbealignedwiththegaps,slots,o
rblack
marks.Ifusingirregularlyshapedlabels,alignthLSSwi
ththe
fronttipsofthelabels.

Thelabelstop/blackmarksensor(LSS)canbemovedlateral
ly
withinarangeof0to50mm(0to1.96inches)fromtheinner
edgeofthemediapath.Thereisascrewrunningthroughthe
outerlowergable.Turningthescrewclockwisewillmoveth
e
LSSinwardsandviceversa.ThepositionoftheLSSinrelati
on
tothemediaisbestcheckedbylookingheadonintotheprint
unitwhentheprintheadisraised.Alignthecenterpointof
the
V-shapeduppersensorwiththecenteroftheslotsormarkst
o
bedetected.

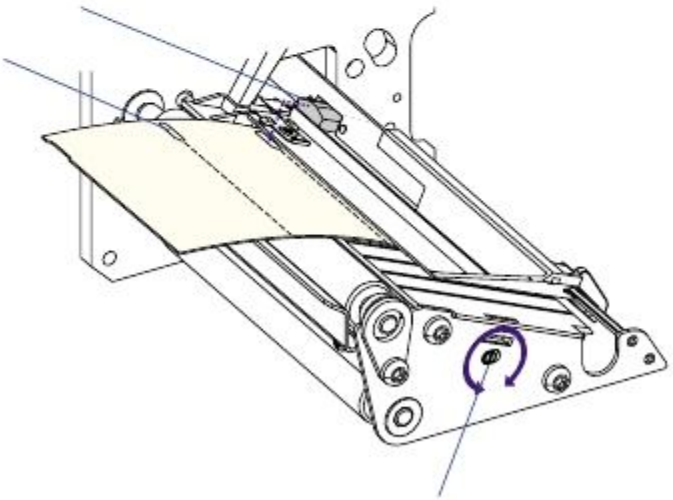
Thelinearmarkingsonthelowerguideplatecanalsobeused
forpositioningoftheLSSbecausetheyarespacedwithan
intervalofexactly1cm(0.39inches.)Thismethodisespec
ially
usefulforblackmarks(measurethelateralpositionofthe
black
markswitharulerbeforeloadingthemedia.)

Upper part of LSS

Detection Slots

Adjustment Screw

Upperpartofprintunitremovedtoimprovevisibility.



Technical Data

Printing		
PrintTechnique	ThermalTransfer and DirectThermal	
Printhead Resolution	12 dots/mm (304.8 dpi)	
Print Speed (variable)	100 to 300 mm/sec.(≈ 4 to 12 inches/sec.)	
PrintWidth (max)	106.6 mm (4.20 inches)	
MediaWidth (min/max)	25 to 120 mm (1 to 4.72 inches)	
Print Length (max)	32767 dots – 2,730 mm(107.5 inches)[1]	
Media Roll Diameter (max)	205 mm (8 inches)	
Media Roll Core Diameter	38 to 40 mm (1.5 inches) or 76 mm (3 inches)	
RibbonWidth	25 to 110 mm (1 to 4.33 inches)	
Ribbon Length (max)	450 metres (1,475 ft)	
Print Directions	4	
Modes of Operation		
Tear-Off (Straight-through)	Yes	
Peel-Off (Self-strip)	Optional	With liner takeup unit
Internal BatchTakeup	Optional	With liner takeup unit
Cut-Off	Optional	With paper cutter
Firmware		
Operating System	Intermec Fingerprint v7.61	Incl.Direct Protocol
Smooth Fonts	TrueDoc andTrueType fonts	
Built-in scalable fonts (std)	15	Unicode fonts[2]
Built-in bar code symbologies (std)	38	
Startup Program (std)	Intermec Shell v4.8	
Physical Measures		
Dimensions (W x L x H)	275 x 480 x 238 mm (10.8 x 18.9 x 9.4 inches)	
Weight (excluding media and options)	13 kg (28.7 pounds)	
Ambient OperatingTemperature	+5°C to +40°C (+41°F to +104°F)	
Humidity	20 to 80% non-condensing	
Electronics		
Microprocessor	32 bit RISC	
On-board Flash SIMMs	3 sockets for 2 or 4MB each	Std.1 x 2MB
On-board DRAM SIMM	2 sockets for 4 – 32 MB	Std.1 x 4MB
Real-Time Clock	Yes	10+ years life
Power Supply		
ACVoltage	>90 to <264VAC,45 to 65 Hz	
PFC Regulation	IEC 61000-3-2	
Maximum Power Consumption	Continuous 175W;Peek ≈ 400W	

Technical Data, cont.

Sensors		
Label Gap/Black Mark/Out of Media	Yes	
Out of ribbon	Yes	
Printhead Lifted	Yes	
Ribbon Low	Option	
LabelTaken	Option	
Controls		
Control Lamps	3	
Display	2 x 16 character LCD with background light	
Keyboard	23 keys membrane-switch type	
Beeper	Yes	
Data Interfaces		
Serial	1 x RS-232	
Parallel	1 x Centronics	
Bar CodeWand	Yes	
Electronic Keys	2	Not used
Connection for Optional Interface Boards	1–2	
Memory Card Adapter	1	Flash or SRAM cards
Accessories and Options		
Automatic Paper Cutter	Option	
Liner/BatchTakeup Unit	Option	Factory-installed only
Label Roll Retainer	Option	
Fan-Fold Guides	Option	For external supplies
RS-232 Cable	Option	
Parallel Interface Cable	Option	
Parallel Interface Board	Option	IEEE 1284
Double Serial Interface Board	Option	
Industrial/Serial Interface Board	Option	
EasyLAN 100i Interface Board	Option	Ethernet
Industrial Interface Board	Option	
External Alphanumeric Keyboard	Option	
MobileLAN®access 2102 Mounting Kit	Option	
Flash Memory Cards	Option	⩽ 64Mbit (8MB)

[1] The max. print length is also restricted by the amount of free DRAM memory.

[2] Latin, Greek, and cyrillic fonts according to OEM code standard are included.

Appendix 2

Media Specifications

Direct Thermal Media

Intermecofferstwoqualitygradesof**directthermal**media for theEasyCoderprinters:

- ***PremiumQuality***:Top-coatedmediawithhighdemandson printoutqualityandresistanceagainstmoisture,plasticisers, andvegetableoils.Examples: -ThermalTopBoard-DurathermII, -ThermalTop-DurathermIITag -ThermalTopHighSpeed-DurathermLtg. -DurathermIR
- ***EconomyQuality***:Nontop-coatedmediawithlessresistance tomoisture,plasticisers,andvegetableoils.Inallother respects,itisequalto*PremiumQuality*.Examples: -ThermalEco -ThermalEcoBoard

Intermec EasyCoder 501 XP – User's Guide

Thermal Transfer Media

Intermecoffers**stock**labelsforthermaltransferprintin
gina
widerangeofqualitygrades.

- *Uncoatedpapers*foreconomicalhigh-volumeprintingtobe usedwithGP/TMX1500ribbons.Examples:
  -TTRUncoated
- *Coatedpapers*withvariouscoat-weight,smoothness,and glosstobeusedwithHP/TMX2500andGP/TMX1500 ribbons.Examples:
  -TTRCoated-DuratranII
  -TTRPremium-DuratranIITag
  -TTRPremiumBoard
- *Polyethyleneplastics*withbetterresistancetowaterand many
  commonchemicalsthanuncoatedandcoatedpapers.They canbeuseoutdoorsandoffergoodtearresistance.Mosto ften
  usedwithHP/TMX2500ribbons.Examples:
  -TTRPolyethylene-Kimdura
  -TTRGlossPolyethylene-KimduraTag
  -Syntran
- *Polyesters*givehighresistancetochemicals,heat,and mechanicalabrasionwithHR/TMX3200ribbons.Examples :
  -TTRHighGlossPolyester-Polyester

Media Roll Size

Roll Diameter:
205 mm (8 in.)

Labels

Core

Diameters:
Width:

Themediamustbewoundupon thecoreinsuchaway thattheprintercanpulltheendfree.

Roll
Max.diameter:
Max.width:
Min.width:

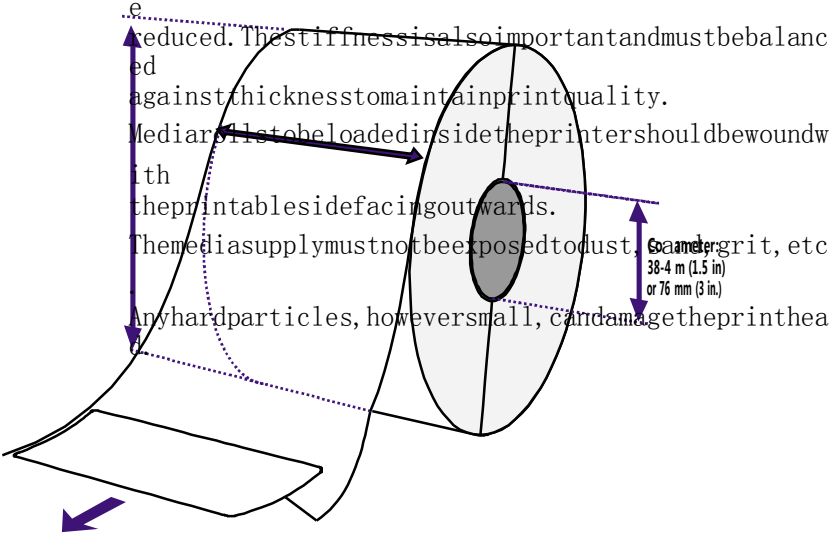
ches)
(4.72inches)

Themaximumrecommendedmediathicknessis175µm(0.007 inches).Thickermediamaybeused,butprintqualitywillbe reduced.Thestiffnessisalsoimportantandmustbebalanced againstthicknesstomaintainprintquality.

Mediarollstobeloadedinsidetheprintershouldbewoundwith theprintablesidefacingoutwards.

Themediasupplymustnotbeexposedtodust,sand,grit,etc.

Anyhardparticles,howeversmall,candamagetheprinthead.



Media

Non-Adhesive Strip

MediaTypeSetup:
- Fixlengthstrip
- Varlengthstrip

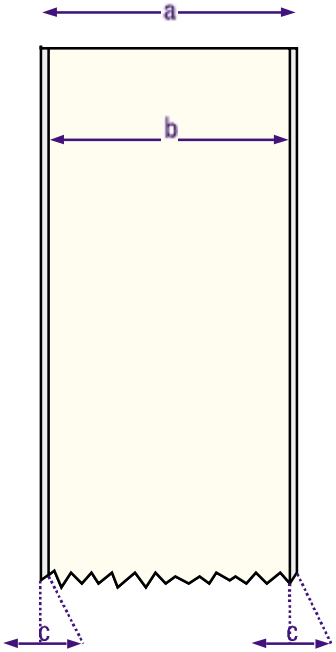
Media, cont.

Self-Adhesive Strip

⇐ b ⇒Liner
Thelinermustnotextendmorethanatotalof1.6mm(0.06
inches)outsidethemediaandshouldprotrudeequallyonbo
th
sides.

⇐ c ⇒MediaWidth(excludingliner):
Maximum:118.4mm
Minimum:23.8mm

MediaTypeSetup:


a
b
c
c

Media, cont.

Self-Adhesive Labels

a

Thelinermustnotextendmorethanatotalof1.6mm(0.06 inches)outsidethemediaandshouldprotrudeequallyonboth

c

Maximum:118.4mm
Minimum:23.8mm

⇐ d ⇒LabelLength:

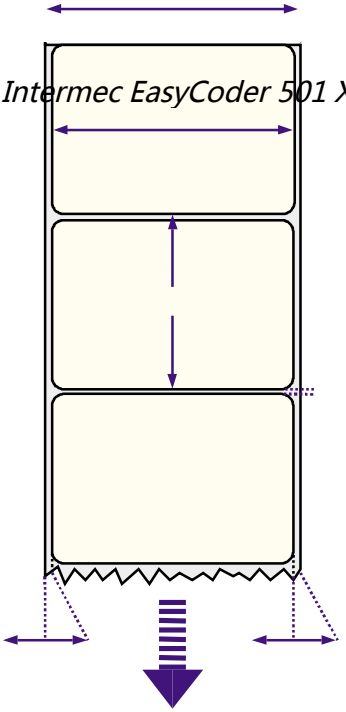
d

SELF-ADHESIVE LABELS

Maximum:
Recommended:

b

s. Itcanbemovedwithinarangeof0to50mm
(0to1.97inches)fromtheinneredgeofthemedia.



Media, cont.

Tickets with Gap

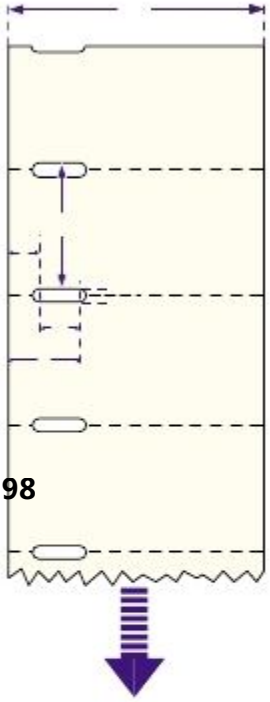
a

Min. length between slots: 8.0 mm (0.32 inches)
Max. length between slots: depends on DRAM size
*Under ideal circumstances, a minimum label length of 4 mm (0.16 inches) could be used. It requires the sum of the label length (**d**) and the label gap (**e**) to be larger than 7 mm (0.28 inches), that batch*

c

e

⇐ d ⇒ Detection Slit Length:
The length of the detection slit (excluding corner radii) must be:



Maximum:
Recommended:
Minimum:

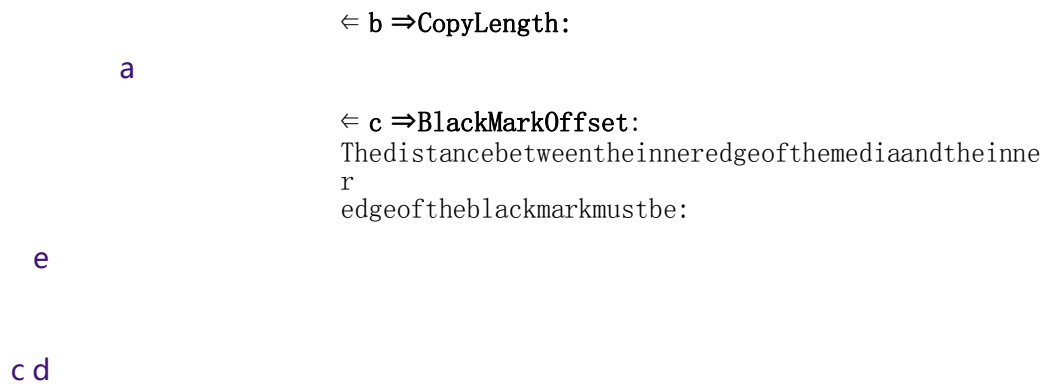
MediaTypeSetup:

• Ticket(wgaps)

Donotallowanyperforationtobreaktheedgeofthemediaas this maycausethemediatosplitandjamtheprinter.

Media, cont.

Tickets with Black Mark

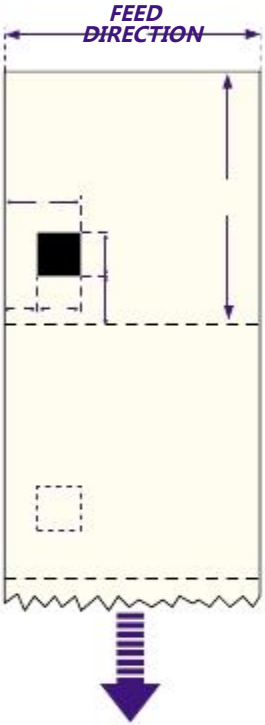


□ f ⇒BlackMarkHeight:

Maximum:
Common:
Minimum:

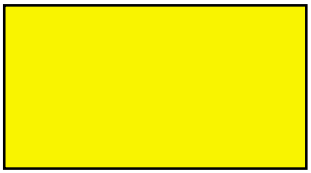
⇐ g ⇒BlackMarkY-Position:

Itisrecommendedtoplacetheblackmarkasclosetothefront edgeoftheticketaspossibleanduseanegativeStopAdjustvaluetocontrolthemediafeed,sotheticketscanbeproperly tornorcutoff.



Transfer Ribbons

Important!
Intermecthermaltransfer ribbonsareengineeredspecifi callyfortheEasyCoder printheads.



Intermec EasyCoder 501 XP – User's Guide

Interfaces

RS-232 Interface

Baudrate:
Char.length
Parity:
Stopbits:
RTS/CTS
ENQ/ACK:
XON/XOFF:
NewLine:

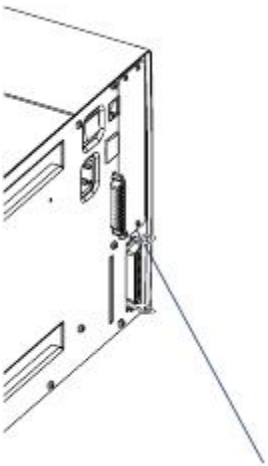
TochangetheRS-232interfacesettings,seeChapter6, “Setting UpthePrinter.”

Interface Cable

Computerend:

Printerend:

"uart1:"



Host		Printer			Host	
Sign	**DB-**	**DB-**	**Sign**	**DB-**	**DB-**	**Signal**
	1	1		1	1	Shield
RX	2	2	TXD	2	3	RXD
TX	3	3	RXD	3	2	TXD
CT	8	4	RTS	4	5	CTS
RT	7	5	CTS	5	4	RTS
		6	DSR	6	20	DTR
GN	5	7	Signal	7	7	GND
		1	+5V	1		
DS	6	2	DTR	2	6	DSR
		2	RI	2		

/. Theexternal+5Vislimitedto200mAandisautomatically

Parallel Interface

"centronics:"

InterfaceCableConnectors
Computerend:Dependsontypeofhostcomputer.
Printerend:36-pinfemaleIEEE1284BCentronics.

1

arepresentlynotsupported.

2

callysetsthecorrectSTDI/O whenanapplicationisselected, forexampleaWindowsdriver, orpromptsyoutoselectone, see Chapter8.

Bar Code Wand Interface

Bar Code Wand Interface

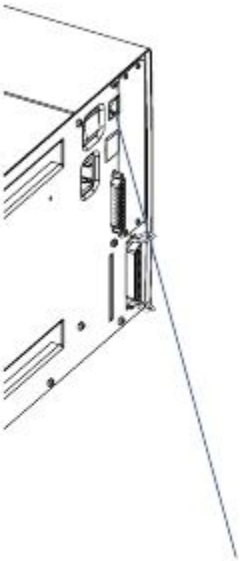
The printer was originally designed for connection of a bar code wand or scanner via a connector on the CPU board accessible through a slot in the printer's rear plate.

If the Code 128 bar code contains FNC3, the data will be treated as a setup string and will change the printer's setup accordingly. A setup bar code may contain a single parameter or a combination of up to 3 or 4 setup parameters. Refer to the *EasySet Bar Code Wand Setup* manual for more information on how to produce setup bar codes.

The printer will acknowledge that a bar code has been successfully read by emitting a short beep signal.

If no FNC3 character is found in the bar code, the data will be stored in a buffer which could be read by specifying the "wand:" device. The buffer is small, so it is recommended to use short bar code data (max. 16 characters) and read the buffer regularly to avoid overflow.

For more demanding applications or for reading bar codes other



Double Serial Interface Board

TheEasyCoder501XPcanoptionallybefittedwithadouble serialinterfaceboard,whichprovidestheprinterwithtw o moreserialports:"uart2:"and"uart3:".Theseportscanb e con figuredforvarioustypesofserialcommunicationaccording to thecustomer srequest.UsetheIntermecFingerprintinstruction SETSTDIOtoselectstandardINandOUTports(bydefault "uart1:"isbothstandardINandOUTport)[1].

"uart2:"
RS-232
RS-422Non-isolated
RS-422Isolated
RS-485

"uart2:"

"uart2:" Serial Port

Communicationport"uart2:"usesaDB-25pinfemaleconnec - tor.

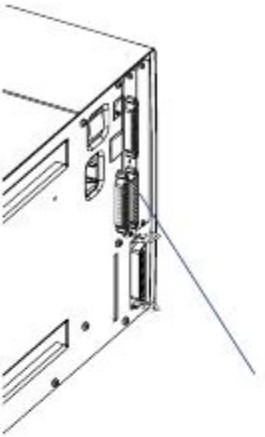
Pin
1
2
3
4
5
6
7
8-14
15
16
17
18
19
20

[1] *automaticallysetsthecorrect standardINandOUT portwhenanapplicationis selectedorpromptsyouto*

Not connected

selectone, seeChapter8.

104



erl

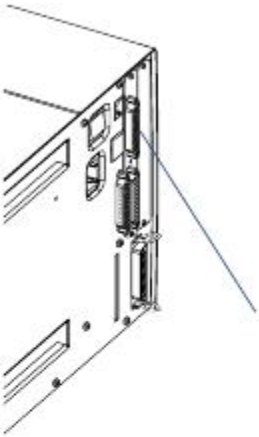
Double Serial Interface Board, cont.

"uart3:" Serial Port

Communicationport"uart3:"usesaDB-25pinmaleconnecto
r.

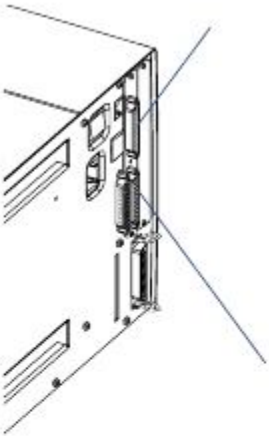
Pin
1
2
3
4
5
6

"uart3:"



Industrial/Serial Interface Board

ctionsfortheIndustrialInterface
Boardforfurtherinformation.

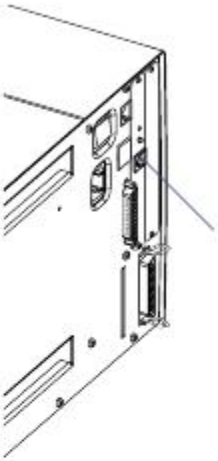


EasyLAN 100i Interface Board

The Intermec EasyLAN 100i Ethernet interface board provides the printer with a 10BaseTEthernet or 100BaseTX Fast Ethernet network connection. You can communicate with the printer via a LAN (Local Area Network) or provide the printer with its own homepage, so you can reach the printer using a Web browser.

EasyLAN 100i supports most major computer systems and environments. You can assign passwords to restrict both login and

RJ-45 socket

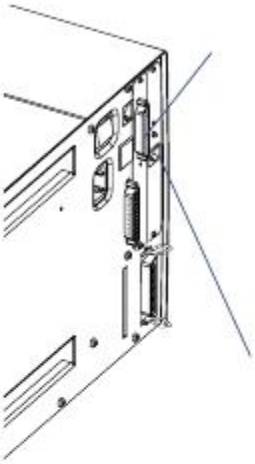


Industrial Interface Board

Industrial Interface

whilestillhavinganindustrialinterface.(Thisisessentiallyan
Industrial/Serialinterfaceboard,wheretheserialinterfacehas
beenomittedinfavoroftheabilitytoconnectanEasyLAN100i
interfaceboard.)
Thisispresentlytheonlycasewhentwointerfaceboardscanbe
installedinthesameEasyCoder501XP.

EasyLAN 100i interface



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EasyCoder 501 XP User’s Guide

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